

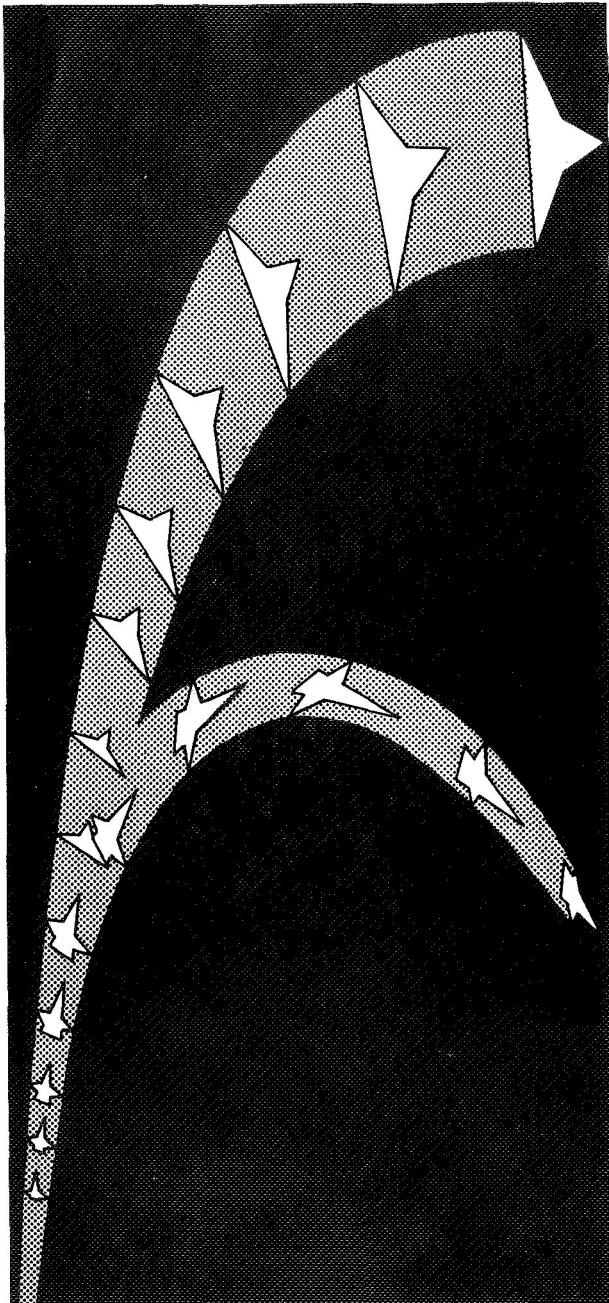
Douglas C. Hurd CR-103154
DMS-DR-1007

N71-35112

-SPACE SHUTTLE-

CASE FILE
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MSC ORBITER (S-5)
(AUGUST 1969 CONFIGURATION)
LONGITUDINAL AND LATERAL
STABILITY INVESTIGATION



WIND TUNNEL TEST RESULTS
DATA REPORT

AUGUST, 1970

CONTRACT NAS8-4016
SCHEDULE II
DRL 184-58

SADSAC SPACE SHUTTLE
AEROTHERMODYNAMIC
DATA MANAGEMENT SYSTEM

SPACE DIVISION  CHRYSLER
CORPORATION



REPORT NUMBER: DMS-DR-1007

PUBLISHED: August, 1970

SPACE SHUTTLE
WIND TUNNEL TEST
DATA REPORT
(MSC TEST SERIES S-XVI)

TEST FACILITY: MAC/DAC LSWT

CONFIGURATION: MSC (August 1969 Configuration) Orbiter; (S-5)

MODEL SCALE: 0.01875

TEST PURPOSE: Longitudinal and Lateral Stability Investigation

MACH NUMBER RANGE: 0.16 and 0.25

TESTS CONDUCTED BY:

MANNED SPACECRAFT CENTER

TEST CONDUCTOR(S) A. M. Whitnah

TEST DATE: 19-23 January, 1970

(This report has been prepared by Chrysler Corporation Space Division, under a Data Management Contract to NASA. Chrysler assumes no responsibility for the data presented herein other than its display characteristics.)

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ABSTRACT

Information for the wind tunnel force and moment test on a 0.01875 scale, (S-5) model of the MSC Orbiter Shuttle (August configuration) at the McDonnell-Douglas Low Speed Wind Tunnel is presented in this document. This test was conducted from January 19 through January 23, 1970. The primary objective was to obtain data describing the longitudinal and lateral stability characteristics of the MSC orbiter configuration for an angle-of-attack range from -30° to 90° and a sideslip-angle range from -10° to 10°. Data were also collected for two possible wing positions and for several horizontal stabilizers. Elevator power was determined for control during subsonic cruise. These data were collected at Mach numbers 0.16 and 0.25.

TEST CONDITIONS

The model was installed in the wind tunnel on a single support system (see Figure 10). The model was attached to a sting which was connected perpendicular to, and upstream of, a single floor-mounted strut. In this arrangement the model and sting-tunnel centerline was assumed to be coincident. Upon installation, the model was rolled +90 degrees so that the wings were in the tunnel's vertical plane. In this attitude, angle of attack was achieved by rotating the model in the tunnel horizontal plane (mechanically rotating the sting-strut assembly, which is mounted on a turntable). Angle of sideslip was achieved by off-setting the sting in the tunnel's vertical plane. This was done by manually rotating the sting about the sting-strut attach point and locked at prescribed settings via a drift pin.

For the sideslip evaluation, the model was rolled back to zero placing the model in an upright position. In this attitude, angle of sideslip is measured in the tunnel's horizontal plane by mechanically rotating the sting-strut turntable. Angle of attack was achieved by off-setting the sting in the tunnel's vertical plane and locked with a drift pin.

Prior to each test, the output signal from each of the balance strain gauges were nulled and recorded as tare measurements. Additionally, the tare measurements were also recorded after each test.

It was found that an angle of attack greater than 40°, with the dynamic pressure (q) = 91 psf, produced a load which approached the balance limitations. Consequently, two sets of data were taken:

- 1) with q = 40 psf, α range from -10° to 90°
- 2) with q = 91 psf, α range from -30° to 40°

Angle of sideslip, (β), was evaluated by two methods:

- 1) for α from 0° to 20°, β varied from -10° to 10° at $>\Delta\beta = 1^\circ$
- 2) for α from -10° to 90°, β varied from 0° to 10° at $>\Delta\beta = 5^\circ$

TEST CONDITIONS
TEST L5WT 223

BALANCE UTILIZED: TASK CORP. MK. XXVII

CAPACITY:

ACCURACY:

COEFFICIENT TOLERANCE:

NF	<u>400 lbs.</u>
SF	<u>400 lbs.</u>
AF	<u>50 lbs.</u>
PM	<u>60 IN. lbs.</u>
YM	<u>60 IN. lbs.</u>
RM	<u>60 IN. lbs.</u>

0.5% F.S.

COMMENTS:

DATA REDUCTION

Force and moment data were recorded in the body axis system and reduced to coefficient form using the following reference values;

$$S_{ref} = \text{wing planform area} = 46.2 \text{ in}^2 = .3208 \text{ ft}^2$$

$$l_{ref} = \bar{c}, \text{wing mean aerodynamic chord} = 2.773 \text{ in} = .2317 \text{ ft.}$$

$$b_{ref} = b, \text{wing span} = 18 \text{ in.} = 1.5 \text{ ft.}$$

Moments are referenced about the wing mean aerodynamic chord quarter point ($C/4$) with the wing in either fuselage location. This longitudinal point is at fuselage station 13.837. The vertical and lateral reference points are water line 2.4 and buttock line 0.0 respectively.

Axial force correction (for base pressure to free stream pressure), sting deflection (for angular data), and tunnel correction (flow angularity and blockage) are accounted for in the data reduction program.

CONFIGURATIONS INVESTIGATED

NOMENCLATURE

B1	=	Baseline orbiter fuselage configuration of 15 August 1969 (also termed 12.5 orbiter and 242 orbiter)
W1	=	May '69 baseline orbiter wing configuration
V3	=	Aug '69 baseline orbiter vertical tail configuration
H6	=	Aug '69 baseline orbiter horizontal tail configuration
H12	=	MAC designed horizontal tail (enlarged H6)
H13	=	MAC designed tapered/split horizontal tail

Refer to the following pages for dimensional data on the above components.

COMBINATIONS TESTED

B1	B1W1V3H12
B1W1	B1W1V3H13
B1W1V3	B1W1H6
B1W1V3*	B1H6
B1W1V3H6	B1V3H6
B1W1V3H6*	B1V3H13

Figures 2 through 9 are drawings of the configurations tested. Trip strip (0.1 inch wide and grit size 100) were placed at distances of 10% of the chord from the leading edge of the wings, horizontal, and vertical stabilizer, and one-inch aft around the nose, at the base, and on both sides of the fuselage (10% of the height). The above configurations were tested at elevator deflections, positive with trailing edge down, of -20, -10, 0, 2, 10, 20, and 30 degrees at a tail incidence angle of zero degree and at tail incidence angles of -10, -5, and 0 degrees at zero elevator deflection. Data were also taken at tail dihedral angles of 0 and 15 degrees.

* Wings $\bar{c}/4$ located at 54.71% of the body length; on all other configurations tested the wings $\bar{c}/4$ was located at 53.47% of the body length.

MODEL COMPONENT: BODY - B1

GENERAL DESCRIPTION: MSC ORBITER S-5; 0.01875 SCALE

DRAWING NUMBER: SDY 37100150

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length, inches	<u>1380.0</u>	<u>25.87</u>
Max. Width, inches	<u>230.0</u>	<u>4.31</u>
Max. Depth, inches	<u>256.0</u>	<u>4.8</u>
Fineness Ratio (Length/width)	<u>5.565</u>	<u>5.565</u>
Area		
Max. Cross-Sectional	<u>308.0</u>	<u>0.1335</u>
Planform	<u>—</u>	<u>—</u>
Wetted	<u>—</u>	<u>—</u>
Base, ft ²	<u>160.3</u>	<u>0.0563</u>

MODEL COMPONENT: WING (W1)

GENERAL DESCRIPTION: MSC ORBITER S-5, 0.01875 scale

DRAWING NUMBER: SDY 37100106

DIMENSIONS: FULL-SCALE MODEL SCALE

TOTAL DATA

Area, ft^2		
Planform	<u>916.6</u>	<u>0.321</u>
Wetted	<u>1295.0</u>	<u>0.455</u>
Span (equivalent)	<u>80.0</u>	<u>1.5</u>
Aspect Ratio	<u>7.03</u>	<u>7.03</u>
Rate of Taper $(C_R - C_t) \div b/2$	<u>0.142</u>	<u>0.142</u>
Taper Ratio	<u>0.33</u>	<u>0.33</u>
Dihedral Angle, degrees	<u>7.0</u>	<u>7.0</u>
Incidence Angle, degrees	<u>4.0</u>	<u>4.0</u>
Aerodynamic Twist, degrees	<u>0.0</u>	<u>0.0</u>
Toe-In Angle	<u>—</u>	<u>—</u>
Cant Angle	<u>—</u>	<u>—</u>
Sweep Back Angles, degrees		
Leading Edge	<u>14.0</u>	<u>14.0</u>
Trailing Edge	<u>-2.01</u>	<u>-2.01</u>
0.25 Element Line	<u>10.05</u>	<u>10.05</u>
Chords: inches		
Root (Wing Sta. 0.0)	<u>204.8</u>	<u>3.84</u>
Tip, (equivalent)	<u>68.3</u>	<u>1.28</u>
MAC, inches	<u>148.3</u>	<u>2.773</u>
Fus. Sta. of .25 MAC	<u>738.0</u>	<u>13.837</u>
W.P. of .25 MAC	<u>200.5</u>	<u>3.76</u>
Airfoil Section		
Root	<u>NACA 0014-64</u>	<u>0014-64</u>
Tip	<u>NACA 0010-64</u>	<u>0010-64</u>

EXPOSED DATA

Area, ft^2	<u>611.6</u>	<u>0.215</u>
Span, (equivalent) ft.	<u>60.8</u>	<u>1.14</u>
Aspect Ratio	<u>6.04</u>	<u>6.04</u>
Taper Ratio	<u>.394</u>	<u>.394</u>
Chords		
Root	<u>173.3</u>	<u>3.25</u>
Tip	<u>68.3</u>	<u>1.28</u>
MAC	<u>141.1</u>	<u>2.645</u>
Fus. Sta. of .25 MAC	<u>674.3</u>	<u>12.644</u>
W.P. of .25 MAC	<u>272.0</u>	<u>5.10</u>

MODEL COMPONENT: (V3) VERTICAL TAIL

GENERAL DESCRIPTION: MSC ORBITER S-5, 0.01875 scale

DRAWING NUMBER: SGY 37100098

DIMENSIONS: FULL-SCALE MODEL SCALE

TOTAL DATA

Area, in^2		
Planform	<u>34704.0</u>	<u>12.2</u>
Wetted	<u>—</u>	<u>—</u>
Span (equivalent)	<u>15.4 ft</u>	<u>3.468 in</u>
Aspect Ratio	<u>3.94</u>	<u>3.94</u>
Rate of Taper	<u>—</u>	<u>—</u>
Taper Ratio	<u>0.47</u>	<u>0.47</u>
Diehedral Angle, degrees	<u>0.0</u>	<u>0.0</u>
Incidence Angle, degrees	<u>0.0</u>	<u>0.0</u>
Aerodynamic Twist, degrees	<u>0.0</u>	<u>0.0</u>
Toe-In Angle	<u>—</u>	<u>—</u>
Cant Angle	<u>—</u>	<u>—</u>
Sweep Back Angles, degrees		
Leading Edge	<u>45.0</u>	<u>45.0</u>
Trailing Edge	<u>15.0</u>	<u>15.0</u>
0.25 Element Line	<u>42.5</u>	<u>42.5</u>
Chords:		
Root (Wing Sta. 0.0), inches	<u>255.5</u>	<u>4.99</u>
Tip, (equivalent), inches	<u>120.0</u>	<u>2.25</u>
MAC, inches	<u>195.8</u>	<u>3.672</u>
Fus. Sta. of .25 MAC	<u>1231.0</u>	<u>23.082</u>
Z STA. ■■■ of .25 MAC	<u>337.3</u>	<u>6.325</u>
Airfoil Section		
Root	<u>NACA 0012-64</u>	<u>—</u>
Tip	<u>NACA 0012-64</u>	<u>—</u>

MODEL COMPONENT: HORIZONTAL TAIL (H6) INCLUDING ELEVATOR

GENERAL DESCRIPTION: 0.01875 SCALE MSC ORBITER, S-5

DRAWING NUMBER: 564 371000 86

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area	<u>56,234.8 in²</u>	<u>19.77 in²</u>
Planform	<u>—</u>	<u>—</u>
Wetted	<u>—</u>	<u>—</u>
Span (equivalent)	<u>513.0 in</u>	<u>9.62</u>
Aspect Ratio	<u>4.68</u>	<u>4.68</u>
Rate of Taper	<u>—</u>	<u>—</u>
Taper Ratio	<u>.353</u>	<u>.353</u>
Diehedral Angle, degrees	<u>0.0</u>	<u>0.0</u>
Incidence Angle, degrees	<u>0.0</u>	<u>0.0</u>
Aerodynamic Twist, degrees	<u>0.0</u>	<u>0.0</u>
Toe-In Angle	<u>—</u>	<u>—</u>
Cant Angle	<u>—</u>	<u>—</u>
Sweep Back Angles, degrees		
Leading Edge	<u>10.2</u>	<u>10.2</u>
Trailing Edge	<u>-12.9</u>	<u>-12.9</u>
0.25 Element Line	<u>4.5</u>	<u>4.5</u>
Chords:		
Root (Wing Sta. 0.0)	<u>13.5 ft</u>	<u>3.04 in</u>
Tip, (equivalent)	<u>4.77 ft</u>	<u>1.073 in</u>
MAC, inches	<u>118.03</u>	<u>2.213</u>
Fus. Sta. of .25 MAC	<u>1327.5</u>	<u>24.89</u>
W.P. of .25 MAC	<u>108.95</u>	<u>2.024</u>
Airfoil Section		
Root	<u>NACA 0012-64</u>	<u>0012-64</u>
Tip	<u>NACA 0012-64</u>	<u>0012-64</u>

EXPOSED DATA

Area	<u>48,128 in²</u>	<u>16.92 in²</u>
------	------------------------------	-----------------------------

MODEL COMPONENT: ELEVATOR for H6

GENERAL DESCRIPTION: 0.01875 SCALE MSC ORBITER

DRAWING NUMBER: 56437100086

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area, in ²	<u>15724.1</u>	<u>5.528</u>
Span (equivalent), in	<u>513.1</u>	<u>9.62</u>
Inb'd equivalent chord ($\frac{1}{4}$) in	<u>90.6</u>	<u>1.699</u>
Outb'd equivalent chord in	<u>32.0</u>	<u>0.60</u>
Ratio Elevator chord/vertical tail chord		
At Inb'd equiv. chord ($\frac{1}{4}$)	<u>.559</u>	<u>.559</u>
At Outb'd equiv. chord	<u>.559</u>	<u>.559</u>
Sweep Back Angles, degrees		
Leading Edge	<u>—</u>	<u>—</u>
Tailing Edge	<u>-12.9</u>	<u>-12.9</u>
Hingeline	<u>0.0</u>	<u>0.0</u>
Area Moment (Normal to hinge line) in ³	<u>81.0×10^4</u>	<u>5.340</u>

MODEL COMPONENT: HORIZONTAL TAIL (H12)

GENERAL DESCRIPTION: _____

DRAWING NUMBER: _____

DIMENSIONS: FULL-SCALE MODEL SCALE

TOTAL DATA

Area		
Planform	<u>494 ft²</u>	<u>24.7 in²</u>
Wetted	<u>47.91 ft</u>	<u>10</u>
Span (equivalent)	<u>42.91 ft</u>	<u>10.78 in</u>
Aspect Ratio		
Rate of Taper		
Taper Ratio		
Diehedral Angle, degrees	<u>0</u>	<u>0</u>
Incidence Angle, degrees	<u>0</u>	<u>0</u>
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	<u>10.2</u>	<u>10.2</u>
Trailing Edge	<u>12.9</u>	<u>12.9</u>
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)		
Tip, (equivalent)		
MAC, inches		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
Airfoil Section		
Root		
Tip		

EXPOSED DATA

Area	<u>423.7 ft²</u>	<u>21.35 in²</u>
Span, (equivalent)		
Aspect Ratio		
Taper Ratio		
Chords		
Root		
Tip		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		

MODEL COMPONENT: HORIZONTAL TAIL (H13)

GENERAL DESCRIPTION: _____

DRAWING NUMBER: _____

DIMENSIONS: FULL-SCALE MODEL SCALE

TOTAL DATA

Area		
Planform	<u>471.8 ft²</u>	<u>23.59 in²</u>
Wetted		
Span (equivalent)	<u>48.67 ft</u>	<u>10.94 in</u>
Aspect Ratio		
Rate of Taper		
Taper Ratio		
Diehedral Angle, degrees	<u>0/15</u>	<u>0/15</u>
Incidence Angle, degrees	<u>0</u>	<u>0</u>
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	<u>30.0</u>	<u>30.0</u>
Trailing Edge	<u>8°20'</u>	<u>8°20'</u>
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)		
Tip, (equivalent)		
MAC, inches		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
Airfoil Section		
Root		
Tip		

EXPOSED DATA

Area	<u>429.6 ft²</u>	<u>21.48 in²</u>
Span, (equivalent)		
Aspect Ratio		
Taper Ratio		
Chords		
Root		
Tip		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		

TEST FACILITY DESCRIPTION

The McDonnell Low Speed Wind Tunnel is a closed circuit, single return, atmospheric tunnel with a test section 8 1/2-feet high, 12-feet wide, and 18-feet long. It is capable of a maximum continuous velocity of 240 mph with a clear test section.

The tunnel circuit is 412.6-feet long and consists of two 164-foot legs and two 42.3-foot legs. The entrance cone contraction ratio is 7.35 to 1 and the total diffuser angle is 7.5°. Cooling is accomplished by a spray system passing water over the outside tunnel shell.

The main drive motor, housed in a nacelle 30 feet downstream of the third leg of the circuit, is a Westinghouse 1750 hp wound rotor motor equipped with a liquid rheostat for coarse rpm control and a dynamic brake, coupled to the motor shaft, for fine rpm control. The four-bladed fan is 20 feet in diameter.

TEST 4-SWT 223 DATA SET COLLATION SHEET

PRETEST POSTTEST

COEFFICIENTS:

SCHEDULES α or β

NDV

Page 1 of 5

TEST LSWT 223 DATA SET COLLATION SHEET

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.				NO. OF RUNS	MACH NUMBERS
		α	β	δ_e	θ		
RC1400	B1H6K3W1	B	0	-10	0	1	.25
01		1		-5			6
02		C	V	0			7
03				5			8
RCA04					10		9
RC1040	B1H3W1		0	0	0		11
41							10
BC1042		D					35
RC1070	B1H12K3W1	C	0	0			36
71					10		14
72					-10		16
73					-20		17
74					20		19
75					-20		20
RC1076					20		29
RC1060	B1H15K3	D					30
61		C	V	0			61
62				5			66
63				0	10		67
RC1064							68
							69
							69
							61
							NDV

COEFFICIENTS:

 α or β
SCHEDULES

TEST LSWT 223 DATA SET COLLATION SHEET

PRETEST POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.	CONTROL DEFLECTION					NO. of RUNS	MACH NUMBERS	
			α	β	δ_e	θ	ψ_{ss}		.17	.25
RC1H00	B1/H5-3 V3 W1		0	0	0	0	0	1		
01		D						22		
02		5						23		
03		C						24		
04		10						25		
05		0						32		
06		D						33		
07		20						37		
08		C						38		
09		0						41		
10		D						42		
11		C			-20			48		
12		D			5			49		
13		5			40			73		
RC1H14	B1/H6 V3				C			74		
RC1O3C0	B1/H6 V3		D	O	O		OF	43		
31		C						44		
32		1						5		
33		D						46		
RC1O3C4		C	10					47		

16

COEFFICIENTS:

α or β
SCHEDULES

NDV
ACN

PAGE 3 OR 5

TEST LSNT 223 DATA SET COLLATION SHEET

PRETEST POSTTEST

COEFFICIENTS:

SCHEDULES
 α or β

ADV

PAGE 4 OF 5

TEST LSWT 223 DATA SET COLLATION SHEET

PRETEST POSTTEST

COEFFICIENTS:

SCHEDULES α or β

NDV

PAGE 5 OF 5

TEST L SWT 223 DATA SET DESCRIPTOR SHEET

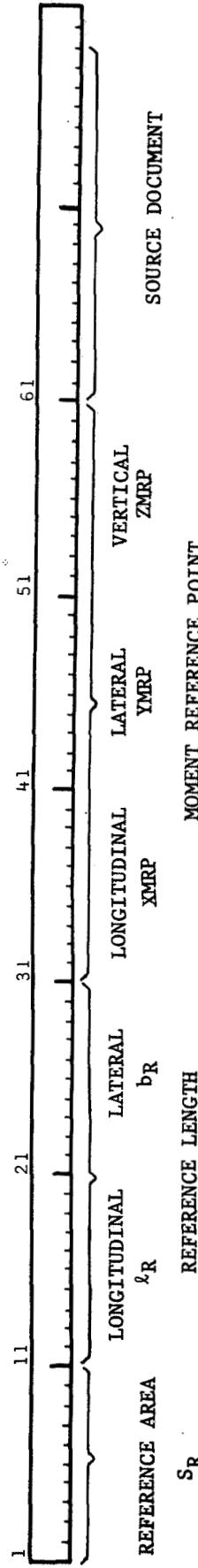
DATA SET IDENTIFIER	DATA SET DESCRIPTOR			CURVE SLOPE RANGE		
	11	21	31	41	51	61
RC1E00	L.SWIT. 2.2.3. 11.87.5. PC. M01D. S5. O.R.B. 13.1.H6.V1. (IFWD).			1.1	-2.0	4.0
01						
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
RC1E18						

REFERENCE AREA s_R	LONGITUDINAL ℓ_R	LATERAL b_R	REFERENCE LENGTH	LONGITUDINAL	LATERAL	VERTICAL	SOURCE DOCUMENT
				XMRP	YMRP	ZMRP	
0.3.20.8	0..23.1.7	11..50	1/3.83.7	10.0	12.40	ISDX 374.00.150	

TEST LSWT 223 DA' SET DESCRIPTOR SHEET

DATA SET IDENTIFIER ₁	DATA SET DESCRIPTOR				CURVE SLOPE RANGE
	11	21	31	41	51 LOWER LIMIT 61 UPPER LIMIT
RC1A00	L.SWT. 223.10.87.5.1PC.MOD.S.5.10R.B.BU.H.6V.3W/1..(VA.ET.2.)				1.1 - 2.0 1.1 - 2.0
01					
02					
03					
RC1A04					
RC1040					
41					
RC1042					
RC1070					
71					
72					
73					
74					
75					
RC1076					
RC1060					
61					
62					
63					
64					

20



SOURCE DOCUMENT

PAGE 2 OF 5

TEST LSWT 223 DATA SET DESCRIPTOR SHEET

DATA SET IDENTIFIER	DATA SET DESCRIPTOR			CURVE SLOPE RANGE		
	11	21	31	41	51	61
RC1H00	L.SWT. 223, 11.875 PC, MOD. S5 ØRB, BI.H.51/3V3M1.					
01					1.1	-2.0
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
RC1H14						
RC1O30						
31						
32						
33						
RC1O34						

1 11 21 31 41 51 61

REFERENCE AREA LONGITUDINAL LATERAL LONGITUDINAL LATERAL VERTICAL
 S_R ϱ_R b_R XMRP YMRP ZMRP

REFERENCE LENGTH MOMENT REFERENCE POINT

REFERENCE AREA LONGITUDINAL LATERAL LONGITUDINAL LATERAL VERTICAL
 S_R ϱ_R b_R XMRP YMRP ZMRP

SOURCE DOCUMENT
 PAGE 3 OF 5

TEST LSWT 223 DATA SET DESCRIPTOR SHEET

DATA SET IDENTIFIER	1	DATA SET DESCRIPTOR			CURVE SLOPE RANGE	
		11	21	31	41	51 LOWER LIMIT
RC/GOO	LSWT.1223.11.855.PC.M0D.S5.CRE..B1.H013.Y3.W1				1.1 -2.0	4.0
01						
02						
03						
04						
05						
06						
RC/G 07						
RC/050						
51						
52						
53						
54						
55						
56						
RC/057						
RC/010						
11						
12						
RC/013						

22

REFERENCE AREA	LONGITUDINAL ϱ_R	LATERAL b_R	LONGITUDINAL YMRP	LATERAL YMRP	VERTICAL ZMRP	SOURCE DOCUMENT
1	11	21	31	41	51	61

PAGE 4 OF 5

TEST LSWT 223 DA SET DESCRIPTOR SHEET

DATA SET IDENTIFIER	DATA SET DESCRIPTOR			CURVE SLOPE RANGE		
	11	21	31	41	51 LOWER LIMIT	61 UPPER LIMIT
RC1020	L.SWIT.	2.2.3.	11.817.5.	P.C.	MOD.	S5.0.D.R.B6.
21						
22						
23						
RC1024						
RC1000						
01						
02						
RC1003						
RC1080						
81						
82						
83						
RC1084						
84						

23

MOMENT REFERENCE POINT
REFERENCE LENGTH
S R

PAGE 5 OF 5

NOMENCLATURE

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
A_b		base area; m^2 , ft^2 , in^2
a		speed of sound; m/sec , ft/sec
AR	ASPECT	aspect ratio, b^2/S
b	REFB	wing span or reference span; m , ft , in
c		wing chord; m , ft , in
\bar{c}		wing mean aerodynamic chord or reference chord; m , ft , in
c. g.		center of gravity
C. P.		center of pressure
C_A	CATOTL	axial force coefficient, $F_A/q S_{ref}$
C_{A_b}	CABASE	base axial force coefficient, $[(p_\infty - p_b/q)(A_b/S_{ref})]$
C_{Af}	CAFORE	forebody axial force coefficient, $C_A - C_{A_b}$
C_D	CDTOTL	drag force coefficient in the wind axis system, $F_D/q S_{ref}$
C'_D	CD	drag force coefficient in the stability axis system, $F'_D/q S_{ref}$
C_L	CL	lift force coefficient (stability or wing axis) $F_L/q S_{ref}$
C_λ	CRL	rolling moment coefficient in body axis system, $M_x/q S_{ref} b$
$C_{\lambda,s}$	CSL	rolling moment coefficient in the stability axis system, $M_{x,s}/q S_{ref} b$
$C_{\lambda,w}$	CWL	rolling moment coefficient in the wind axis system, $M_{x,w}/q S_{ref} b$

NOMENCLATURE (Continued)

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
C_m	CNM	pitching moment coefficient in the body axis system, $M_y/q S_{ref} l_{ref}$
$C_{m,s}$	CNM	pitching moment coefficient in the stability axis system, $C_{m,s} = C_m$
$C_{m,w}$	CWM	pitching moment coefficient in the wind axis system, $M_{y,w}/q S_{ref} l_{ref}$
C_N	CN	normal force coefficient in the body axis system, $F_N/q S_{ref}$
C_n	CYM	yawing moment coefficient in the body axis system, $M_z/q S_{ref} b$
$C_{n,s}$	CWN	yawing moment coefficient in the stability axis system, $C_{n,s} = C_n$
$C_{n,w}$	CWN	yawing moment coefficient in the wind axis system, $M_{z,w}/q S_{ref} b$
C_p	CP	pressure coefficient, $(p - p_\infty)/q$
C_y	CY	side force coefficient (body or stability axis system), $F_y/q S_{ref}$
F_A		axial force; N, lb
F_D		drag force in wind axis system; N, lb
F'_D		drag force in the stability axis system; N, lb
F_L		lift force (stability or wind axis system); N, lb
F_N		normal force; N, lb
F_Y		side force; N, lb
l_{ref}	REFL	reference length ; m, ft, in
L/D	L/D	lift-to-drag ratio, C_L/C_D
M	MACH	Mach number

NOMENCLATURE (Continued)

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
MRP	MRP	abbreviation for moment reference point
M_x		rolling moment in the body axis system; N-m, ft-lb
$M_{x,s}$		rolling moment in the stability axis system; N-m, ft-lb
$M_{x,w}$		rolling moment in the wind axis system; N-m, ft-lb
M_y		pitching moment in the body (or stability) axis system; N-m, ft-lb
$M_{y,w}$		pitching moment in the wind axis system; N-m, ft-lb
M_z		yawing moment in the body axis system; N-m, ft-lb
$M_{z,w}$		yawing moment in the wind axis system; N-m, ft-lb
p		static pressure; N/m ² ; psi
P		total pressure; N/m ² ; psi
q	Q(PSI) Q(PSF)	dynamic pressure; N/m ² , psi, psf
RN/L	RN/L	Reynold's number per unit length; million/ft.
S		characteristic area; m ² , ft ²
S_{ref}	REFS	reference area; m ² , ft ²
T		temperature; °K, °C, °R, °F
V		speed of vehicle relative to surrounding atmosphere; m/sec, ft/sec

NOMENCLATURE (Continued)

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
\bar{V}		velocity of vehicle relative to surrounding atmosphere; m/sec, ft/sec
α	ALPHA	angle of attack, angle between the projection of the wind X_w -axis on the body X, Z - plane and the body X-axis; deg
β	BETA	sideslip angle, angle between the wind X_w -axis and the projection of this axis on the body X-Z-plane; deg
γ		ratio of specific heats
Γ	DIHDRL	wing dihedral angle; deg
δ		control surface deflection angle; deg positive deflections are: aileron - left aileron trailing edge down elevator - trailing edge down rudder - trailing edge to the left flap - trailing edge down tab - trailing edge down with respect to control surface
ρ		air density; Kg/m^3 , slugs/ ft^3
θ		pitch angle, angle of rotation about the body Y-axis, positive when the positive Z-axis is rotated toward the positive X-axis; deg
ϕ	PHI	roll angle, angle of rotation about the body X-axis, positive when the positive Y-axis is rotated toward the positive Z-axis; deg
ψ	PSI	yaw angle, angle of rotation about the body Z-axis, positive when the positive X-axis is rotated toward the positive Y-axis; deg

NOMENCLATURE (Continued)

SUBSCRIPTS

DEFINITION

a	aileron
b	base
c	canard
e	elevator or elevon
f	flap
r	rudder or ruddervator
s	stability axis system
t	tail, or total conditions
w	wind axis system
ref	reference conditions

FIGURES

Notes:

1. Positive directions of force coefficients moment coefficients, and angles are indicated by arrows.
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity.

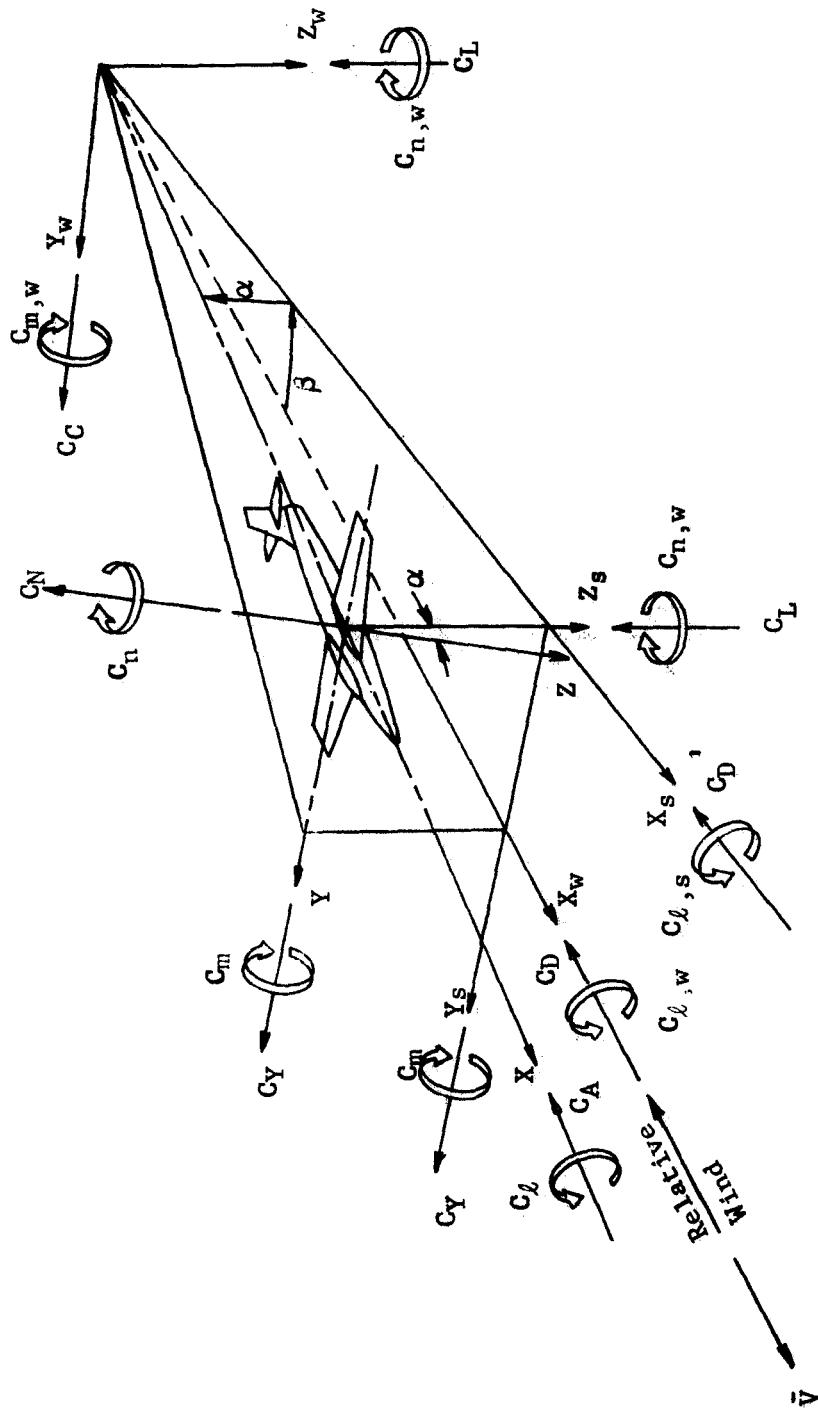


Figure 1. Axis systems, showing direction and sense of force and moment coefficients, angle of attack, and sideslip angle

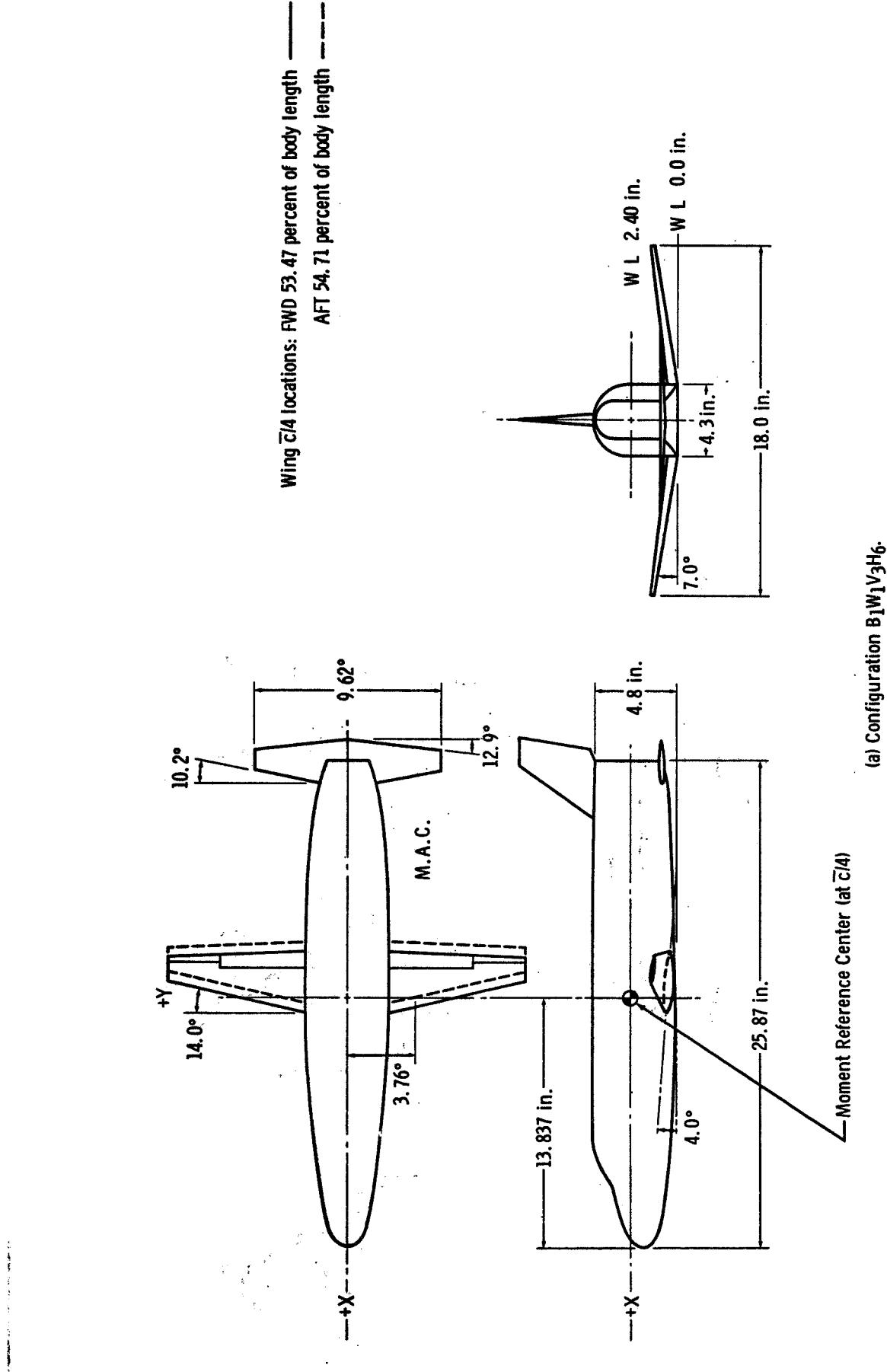


FIGURE 2. THE 0.0187 SCALED MODEL OF THE MSC ORBITER SHUTTLE MODEL S-5
 (a) Configuration B1W1V3H6.

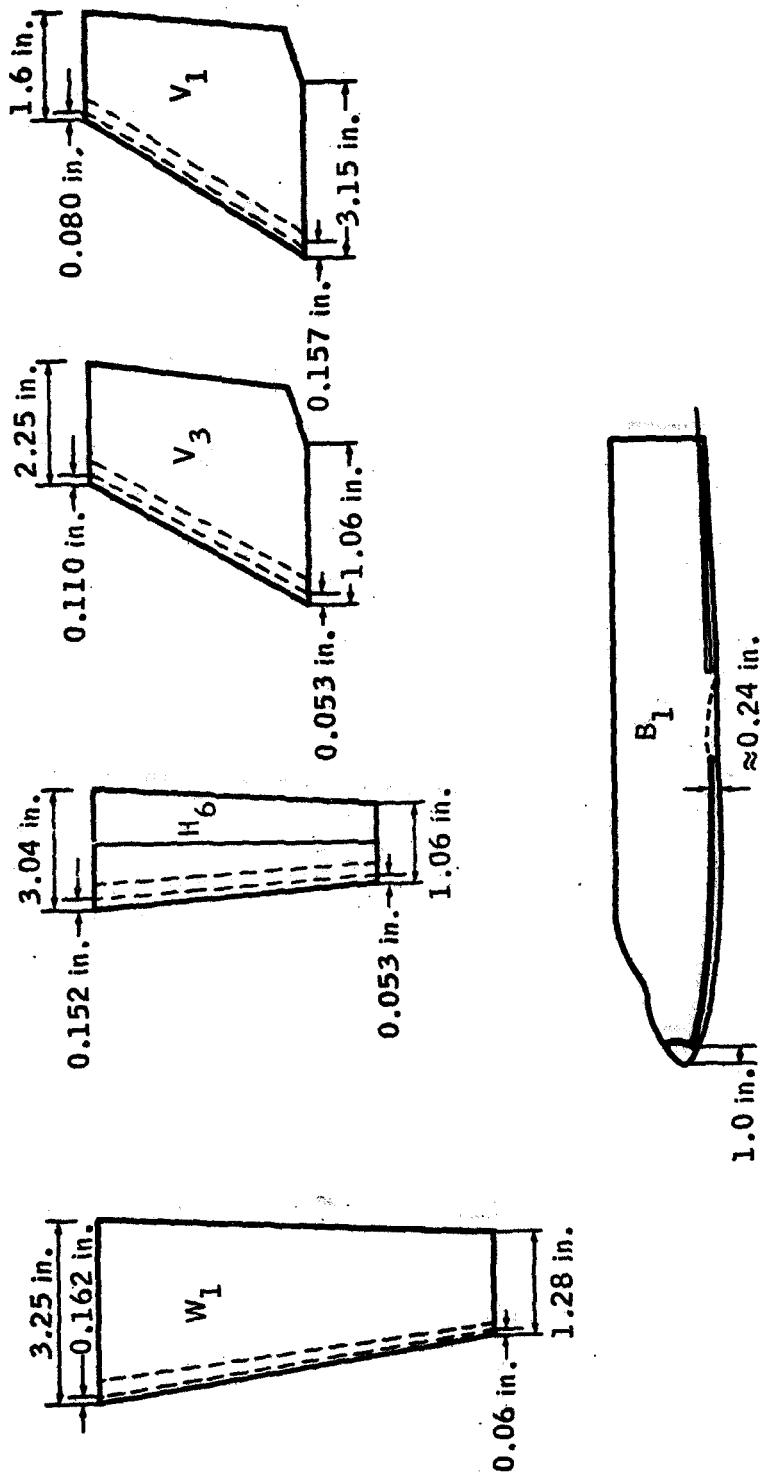


FIGURE 3. GRIT STRIPPING

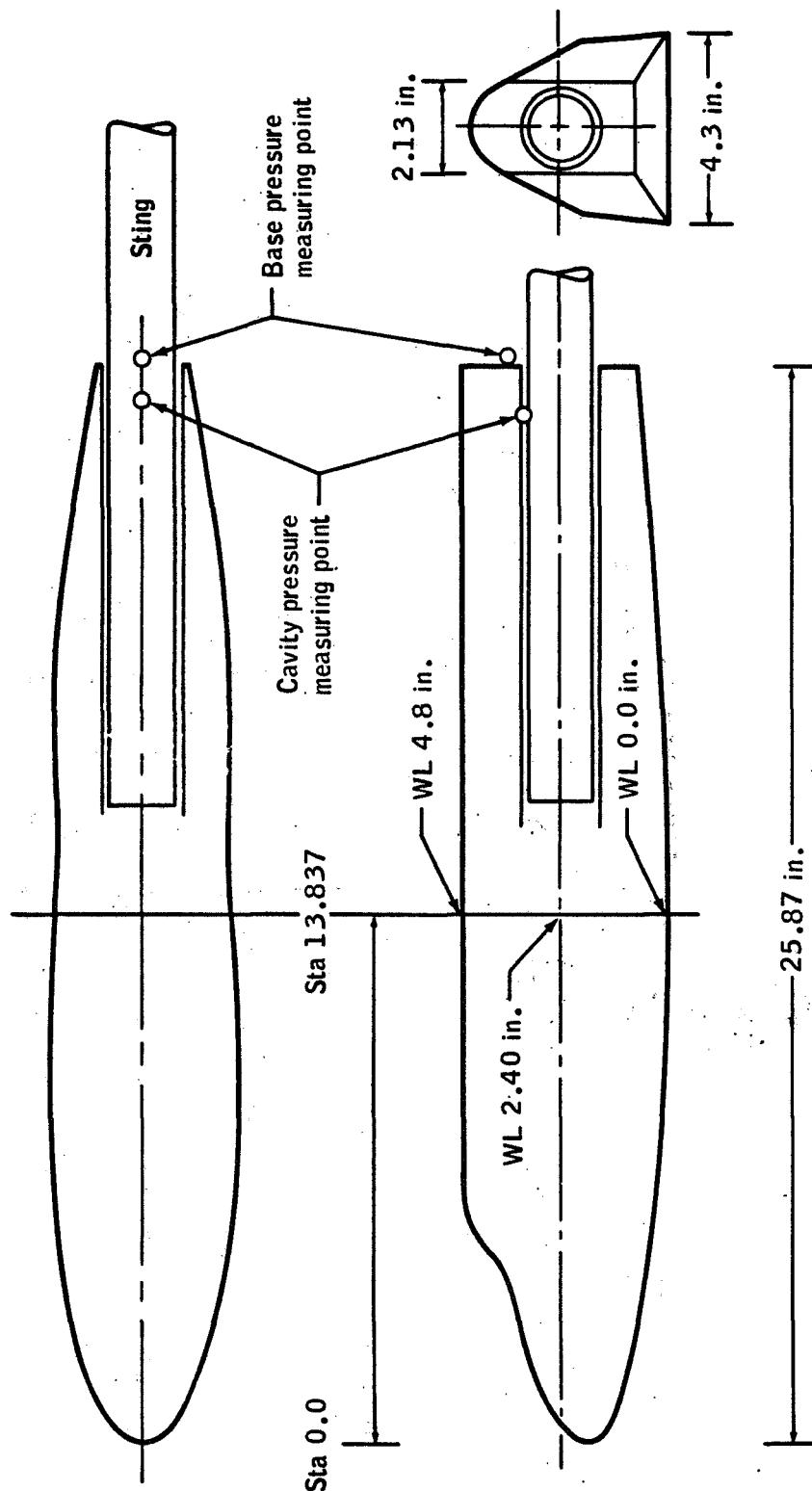


FIGURE 4. FUSELAGE B1

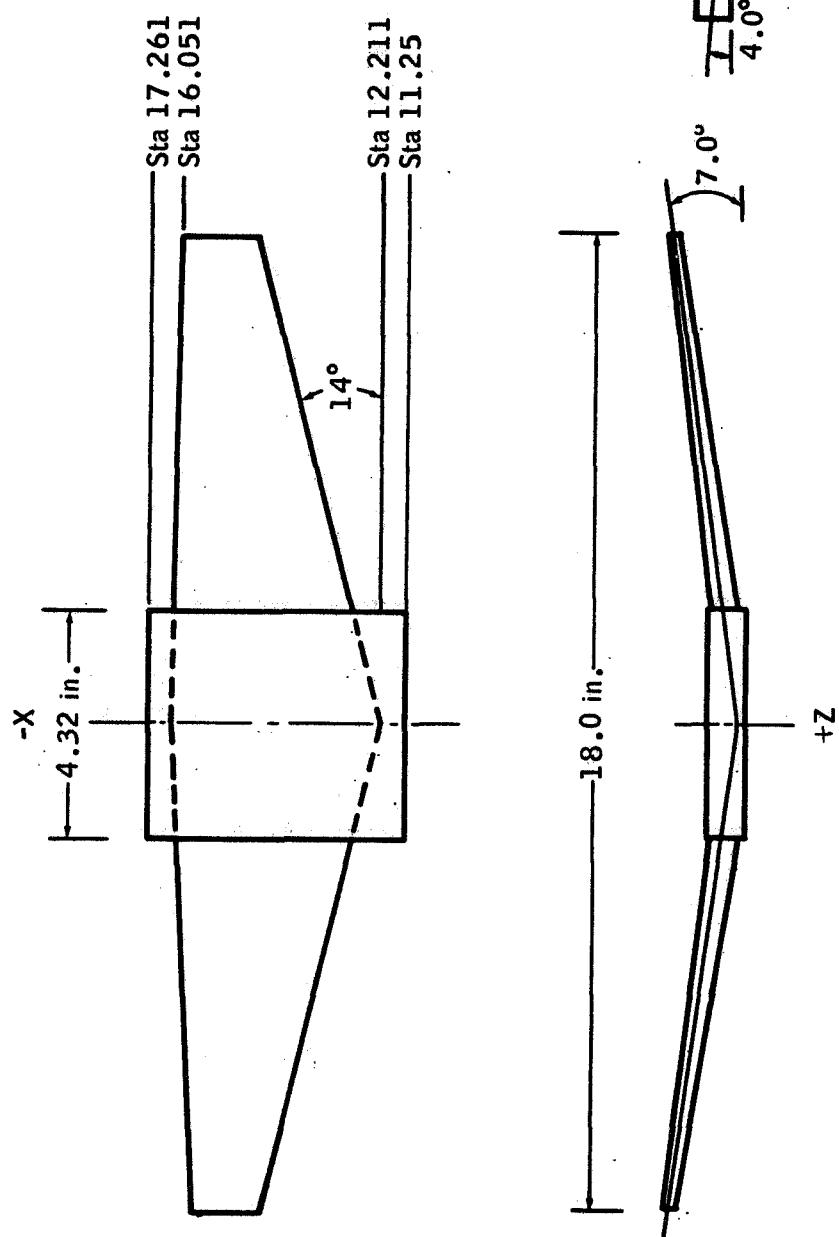


FIGURE 5. WING W1

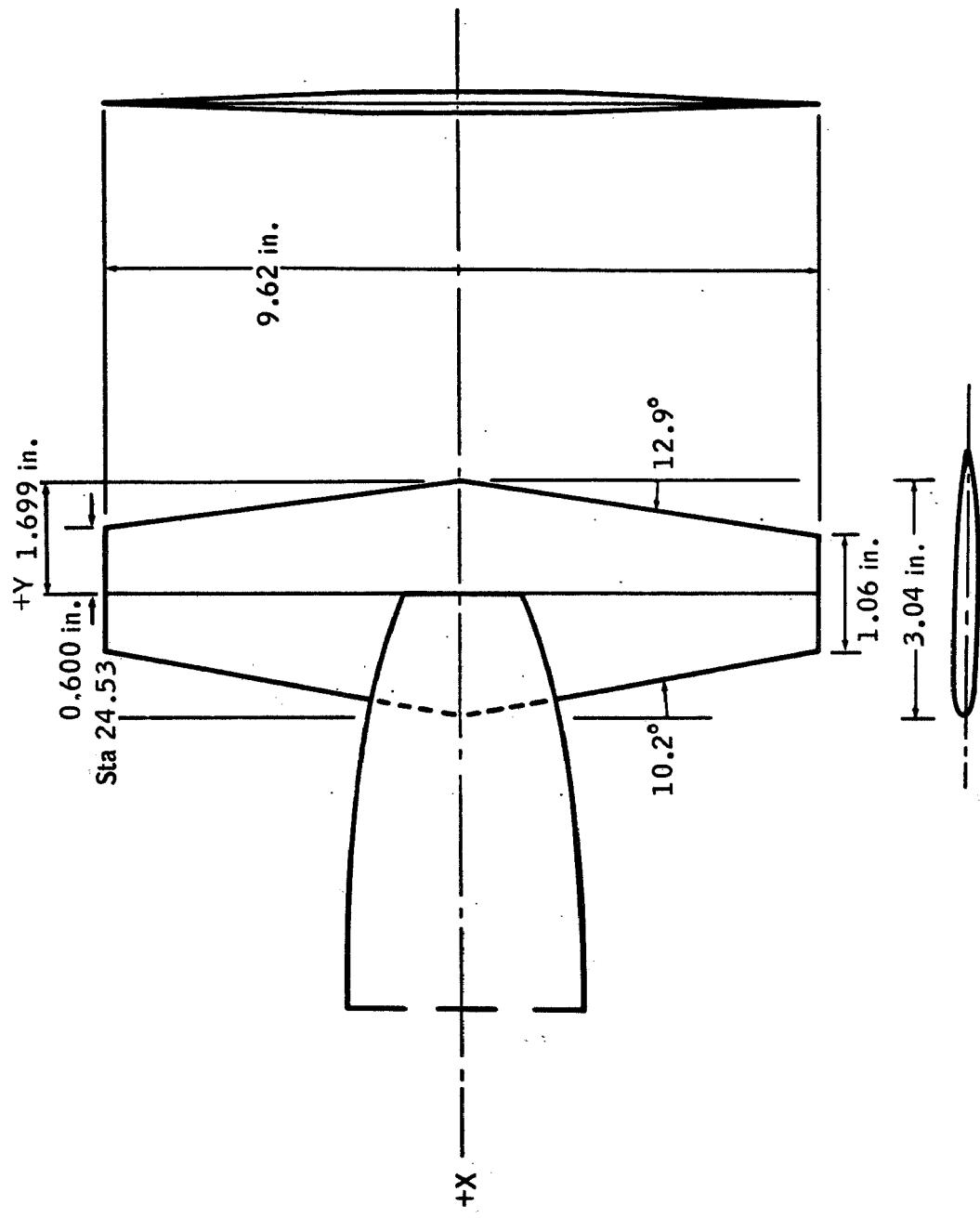


FIGURE 6. HORIZONTAL STABILIZER H6

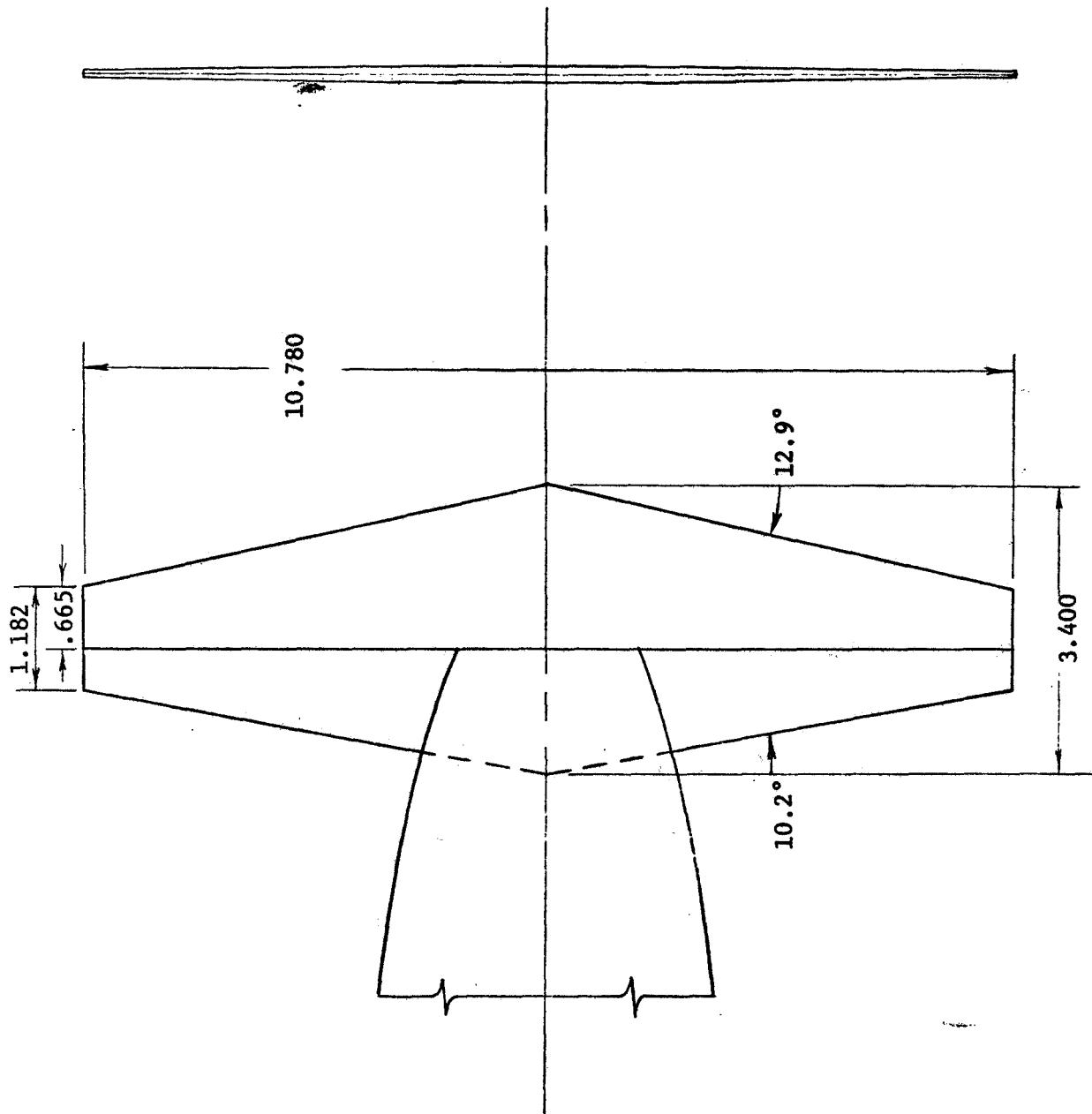
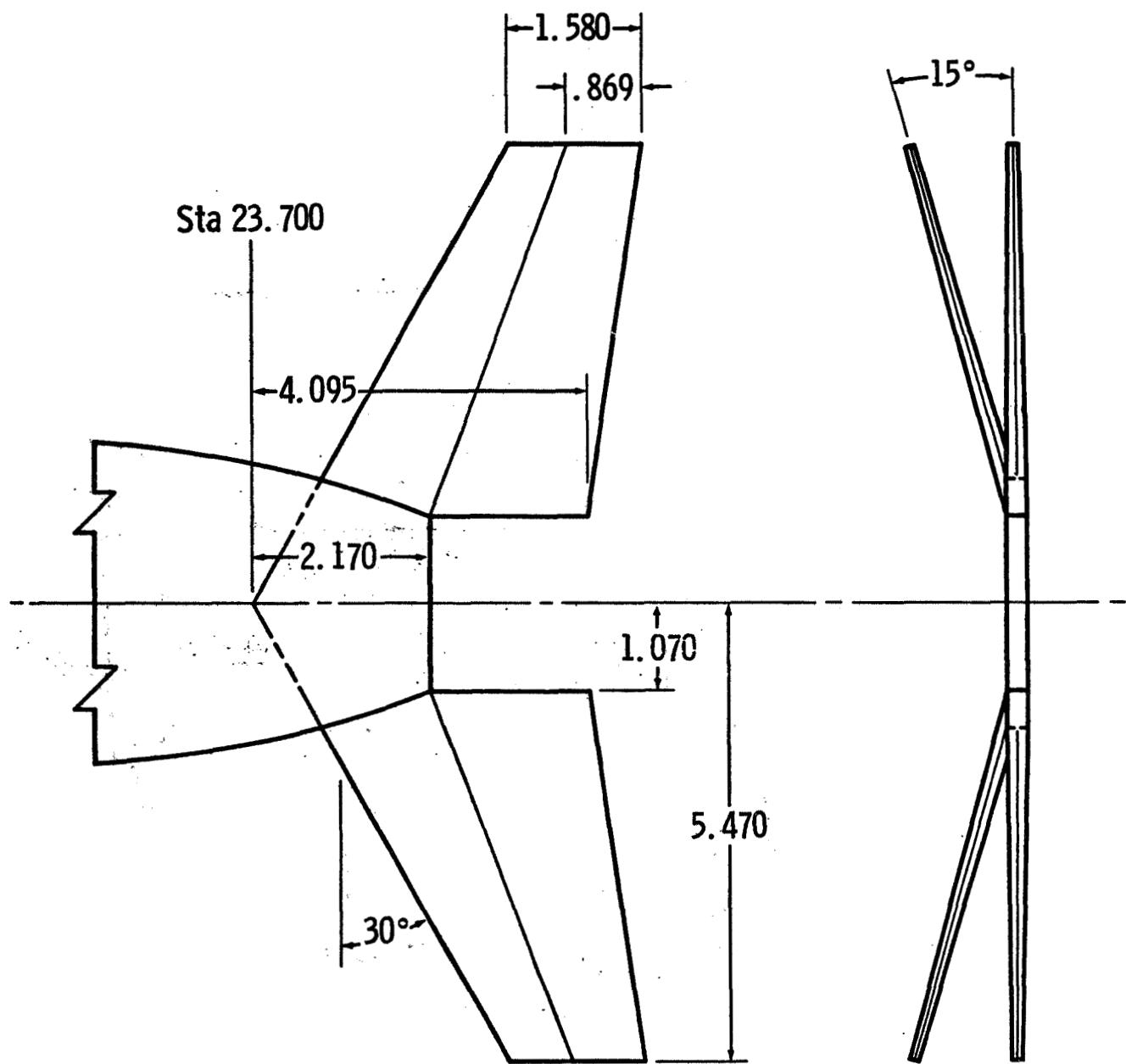


FIGURE 7. HORIZONTAL STABILIZER H12



Note: Rear view shows two possible dihedral positions of H_{13} , $\Gamma=0.0^\circ$ and $\Gamma=15.0^\circ$.

FIGURE 8. HORIZONTAL STABILIZER H13

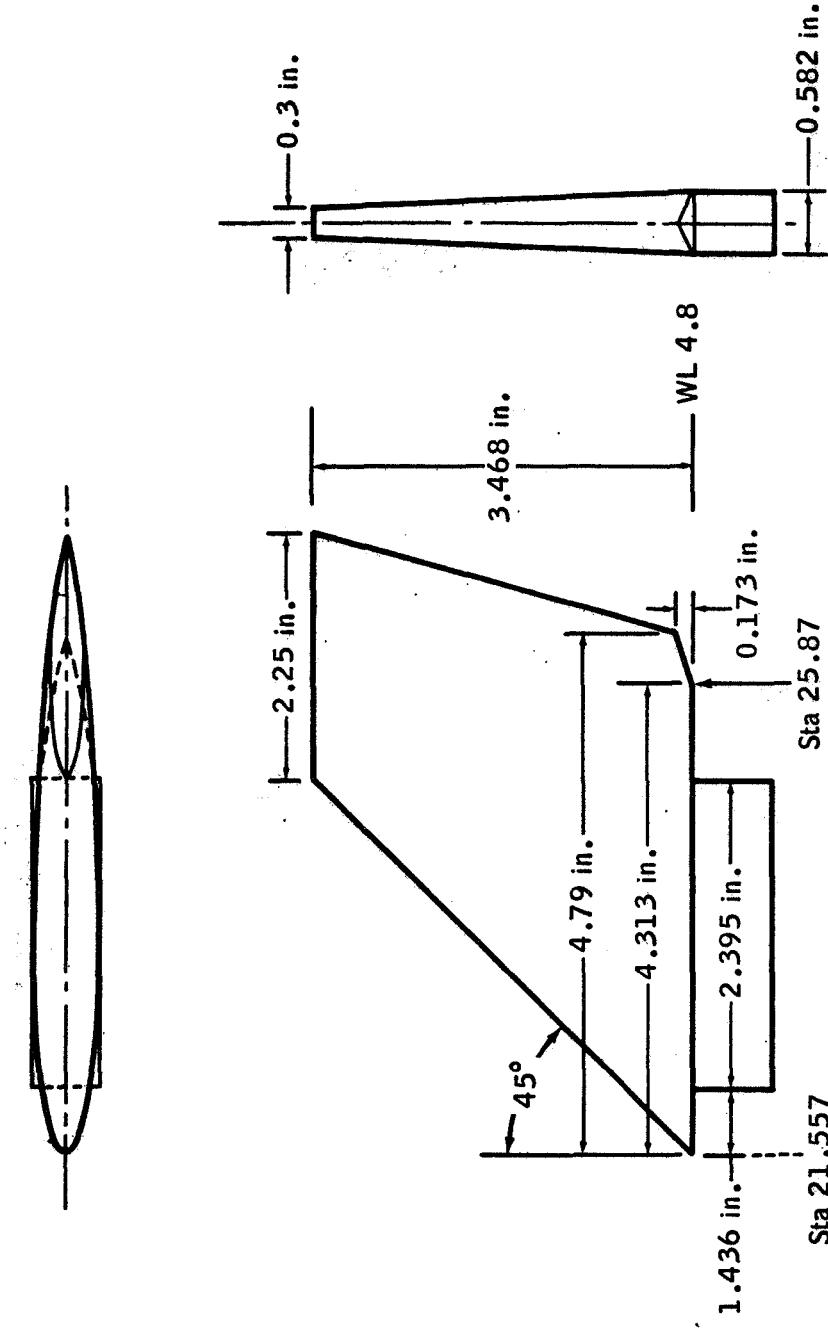


FIGURE 9. VERTICAL STABILIZER V3

TUNNEL CEILING

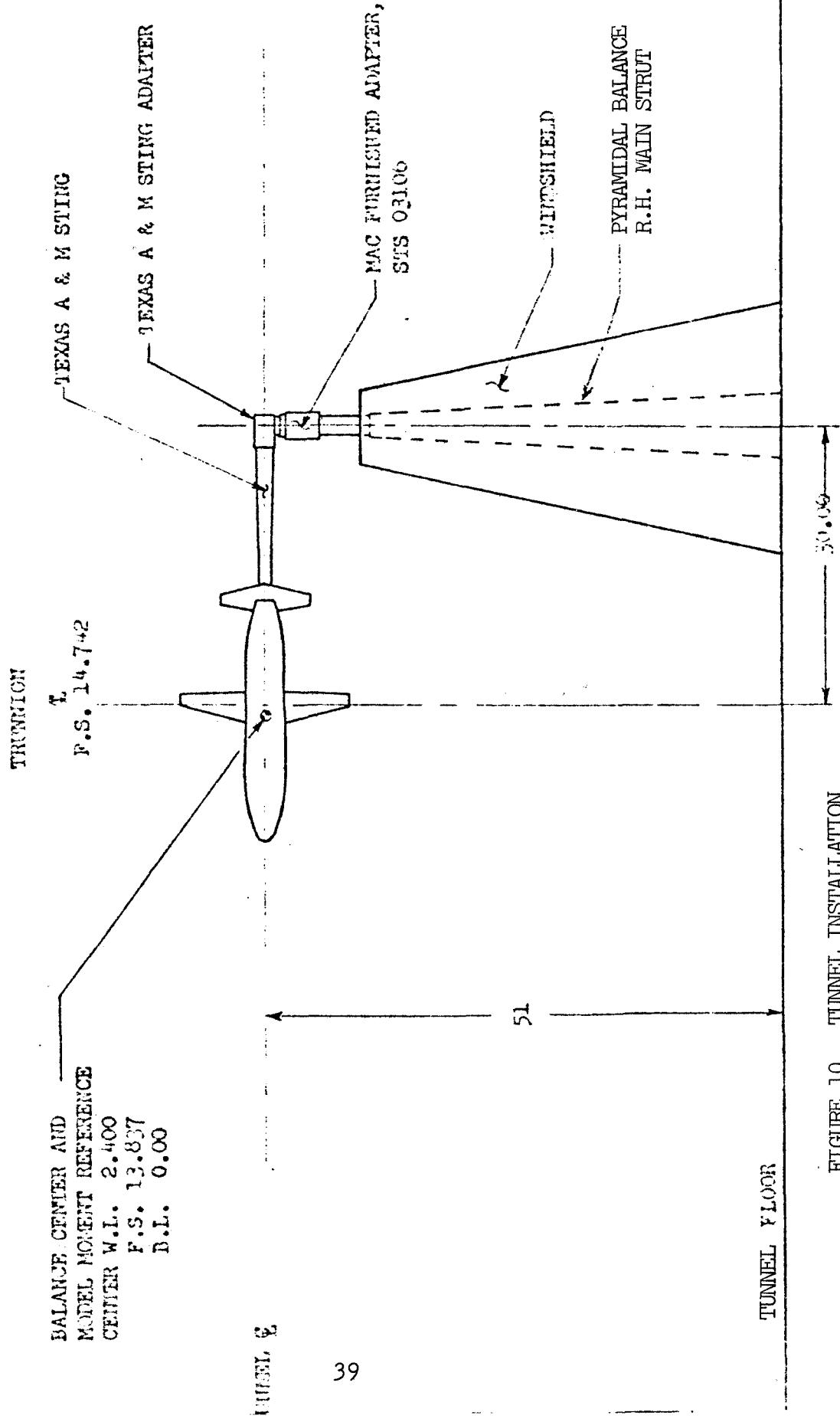


FIGURE 10. TUNNEL INSTALLATION

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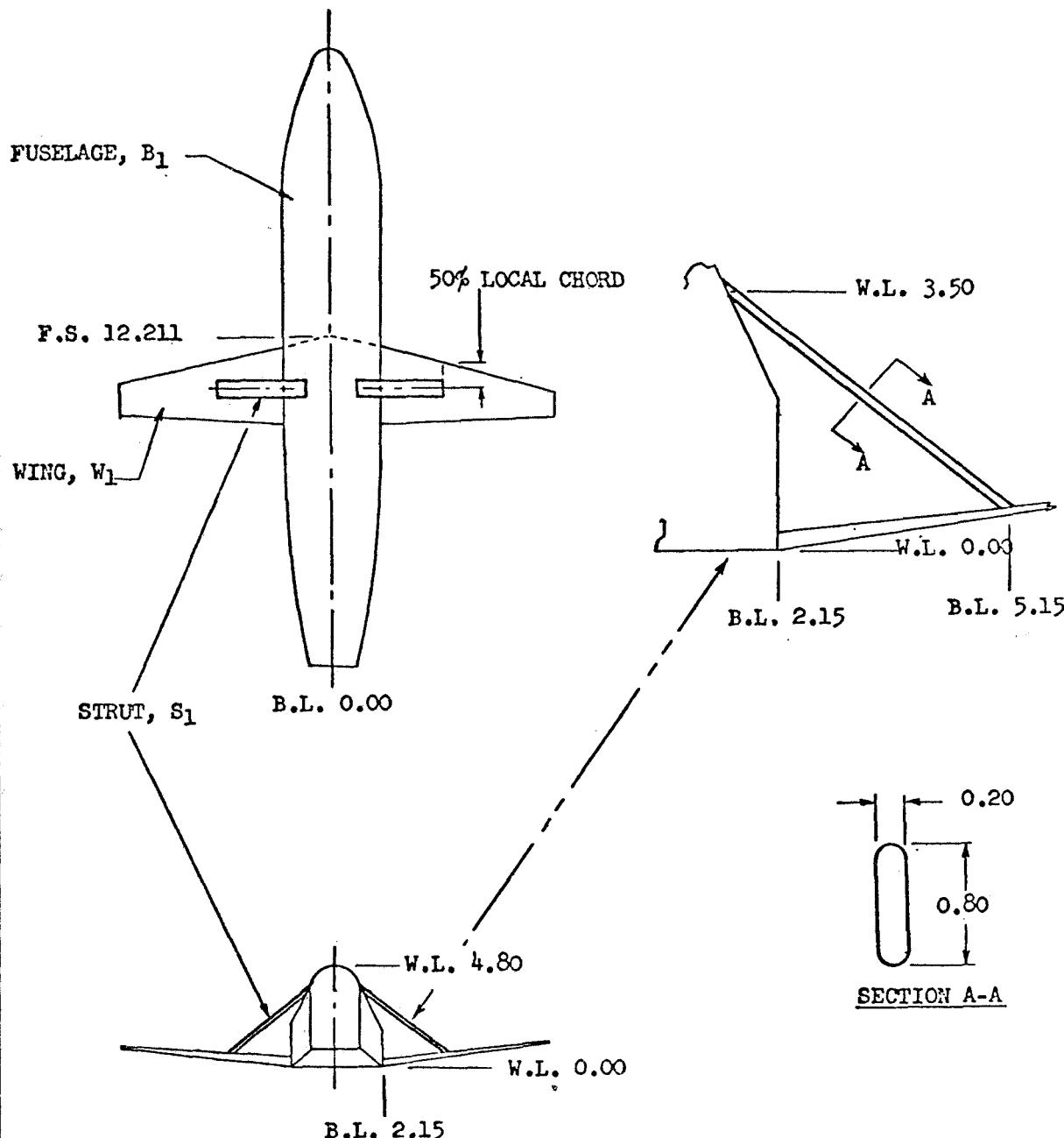
DATE _____

PAGE _____

REVISED _____

REPORT _____

REVISED _____

MODEL S-5 OrbiterWING STRUT, S₁

Notes:

1. All dimensions are model scale in inches.
2. Strut was fabricated from wood stock.

FIGURE 11. WING STRUT, S₁

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DATE _____

PAGE _____

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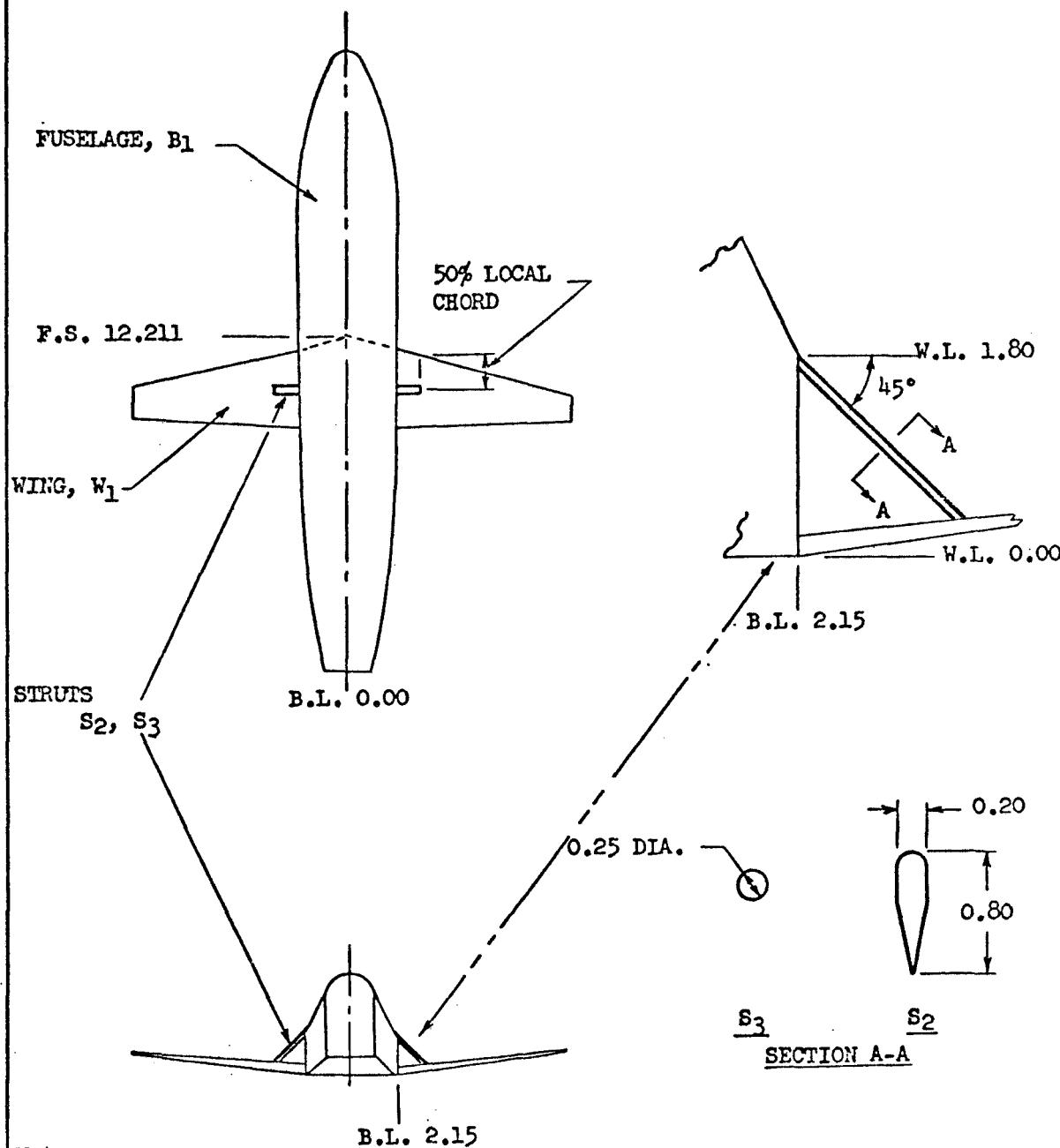
REPORT _____

REVISED _____

MODEL _____

S-5 Orbiter

WING STRUTS, S₂, S₃



Notes:

1. All dimensions are model scale in inches.
2. S₂ and S₃ struts were fabricated from wood stock.

FIGURE 12. WING STRUTS, S₂, S₃

DATA DISPLAY INDEX

DATA DISPLAY INDEX

I. Multiple, Dependent Variable Cross-Plots

<u>DATASET IDENTIFIER</u>						<u>DATA BEGINS ON PLOT PAGE</u>
BC1000	BC1011	BC1042	BC1051	BC1030	BC1F06	1
BC1001	BC1010	BC1041	BC1050	BC1031	BC1F10	3
BC1002	BC1013	BC1053	BC1032	BC1F01		5
BC1F05	BC1F10	BC1F04	BC1F06	BC1F07		7
BC1073	BC1072	BC1070	BC1071	BC1074		9
BC1G07	BC1G06	BC1G05	BC1G02	BC1G03	BC1G04	11
BC1H12	BC1H10	BC1H01	BC1H06	BC1H07		13
BC1H11	BC1H09	BC1H00	BC1H05	BC1H08		15
BC1062	BC1064	BC1061				17
BC1F00	BC1F02	BC1F03				19
BC1A02	BC1A01	BC1A00				21
BC1F10	BC1A02					23
BC1041	BC1040					25
BC1G06	BC1H11	BC1G05	BC1H09	BC1G04	BC1H08	27
BC1F17	BC1083	BC1084				29
BC1050	BC1053	BC1054				31

Cross-Plot Dependent Variables

CD vs. CL
CNM vs. CL

DATA DISPLAY INDEX

II. Multiple, Dependent Variables vs. Angular Deflection

<u>DATASET IDENTIFIER</u>	<u>DATA BEGINS ON PLOT PAGE</u>					
BC1U00	BC1U11	AC1042	BC1U51	BC1U30	BC1FU8	33
AC1U00	AC1011	AC1042	AC1051	AC1U30	AC1FU8	40
BC1U01	BC1010	BC1041	BC1050	BC1U31	BC1FU8	41
AC1U01	AC1010	AC1041	AC1050	AC1U31	AC1FU8	48
BC1U02	BC1013	BC1053	BC1032	CC1FU1		49
AC1U02	AC1013	AC1053	AC1032	PC1FU1		56
BC1FU5	BC1FU10	BC1FU4	BC1FU6	BC1FU7		57
AC1FU5	AC1FU10	AC1FU4	AC1FU6	AC1FU7		64
BC1U73	BC1U72	BC1U70	BC1U71	BC1U74		65
AC1FU5	AC1U72	AC1U70	AC1U71	AC1U74		72
BC1G07	BC1G06	BC1G05	BC1G02	BC1G03	BC1G04	73
AC1G07	AC1G06	AC1G05	AC1G02	AC1G03	AC1G04	80
BC1H12	BC1H10	BC1H01	BC1H06	BC1H07		81
AC1H12	AC1H10	AC1H01	AC1H06	AC1H07		88
BC1H11	BC1H09	BC1H00	BC1H05	BC1H08		89
AC1H11	AC1H09	AC1H00	AC1H05	AC1H08		96
BC1U62	BC1U64	BC1U61				97
AC1U62	AC1U64	AC1U61				104
BC1FU0	BC1FU2	BC1FU3				105
AC1FU0	AC1FU2	AC1FU3				112
BC1A02	BC1A01	BC1A00				113
AC1A02	AC1A01	AC1A00				120
BC1FU10	BC1FU2					121
AC1FU10	AC1AU2					128
BC1U41	BC1U40					129
AC1U41	AC1U40					136
BC1G06	BC1H11	BC1G05	BC1H09	BC1G04	BC1H08	137
AC1G06	AC1H11	AC1G05	AC1H09	AC1G04	AC1H08	144
BC1F17	BC1U83	BC1U84				145
AC1F17	AC1U83	AC1U84				152
RC1F11	RC1F12	RC1F13	RC1F16	RC1F14	RC1F15	153
RC1U57	RC1U56	RC1U55				156
BC1U50	BC1U53	BC1U54				159
AC1U50	AC1U53	AC1U54				166

Dependent Variables

A and D sets - CN

B and C sets - CL, CNM, CY, CWN, CSL, CD, L/D

R sets - CY, CWN, CSL

DATA DISPLAY INDEX

III. Single, Dependent Variables vs. Angular Deflection

<u>DATASET IDENTIFIER</u>	<u>DATA BEGINS ON PLOT PAGE</u>
RC1FO9	167
RC1F18	173
RC1AO3	179
RC1AO4	185
RC1O12	191
RC1O75	197
RC1O76	203
RC1O60	209
RC1O63	215
RC1HO2	221
RC1HO3	227
RC1HO4	233
RC1H13	239
RC1H14	245
RC1O33	251
RC1O34	257
RC1GO0	263
RC1GO1	269
RC1O52	275
RC1O22	281
RC1O20	287
RC1O21	293
RC1O03	299
RC1O80	305
RC1O81	311
RC1O82	317
RC1O23	323
RC1O24	329

Dependent Variables

CL, CNM, CY, CWN, CSL, CD

DATA

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NASA-MSFC-MAF

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

TOTAL DRAG COEFFICIENT, CD



SYMBOL	CONFIGURATION DESCRIPTION
*	LSMT 223 1.875 PC MOD SS ORB. B1
X	LSMT 223 1.875 PC MOD SS ORB. B1W1
◎	LSMT 223 1.875 PC MOD SS ORB. B1H6W1
○	LSMT 223 1.875 PC MOD SS ORB. B1H6V3
V	LSMT 223 1.875 PC MOD SS ORB. B1H6V3 (FWD)

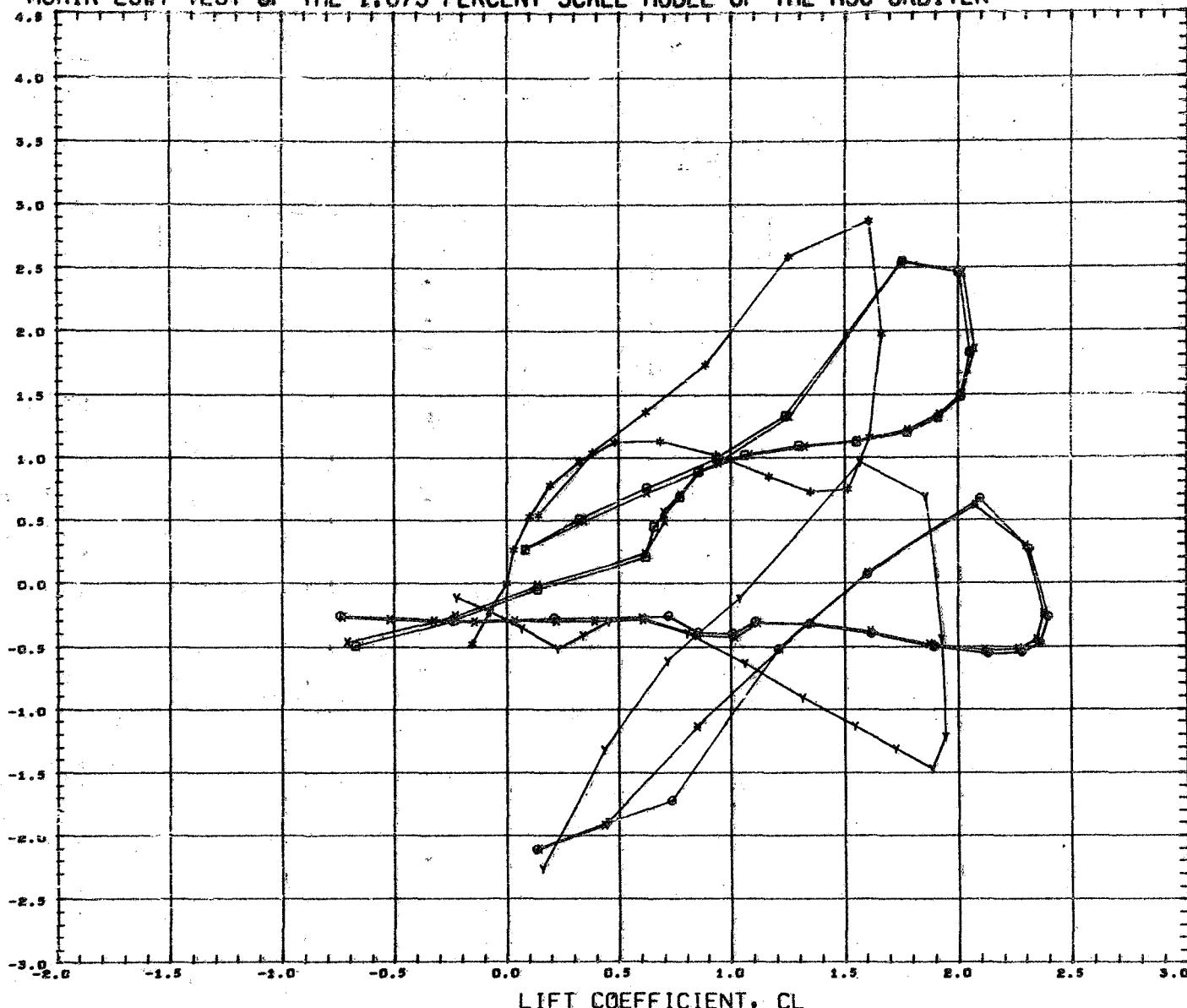
REFERENCE FILE 80Y 37100150

LIFT COEFFICIENT, CL

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1000)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
(BC1011)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
(BC1042)	28 JUL 70		REFB 1.30000X10 ⁺⁰¹ FT.
(BC1051)	28 JUL 70		XMRP 1.38370X10 ⁺⁰¹ IN.
(BC1030)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
(BC1F08)	28 JUL 70		ZMRP 2.40000X10 ⁺⁰² IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CM

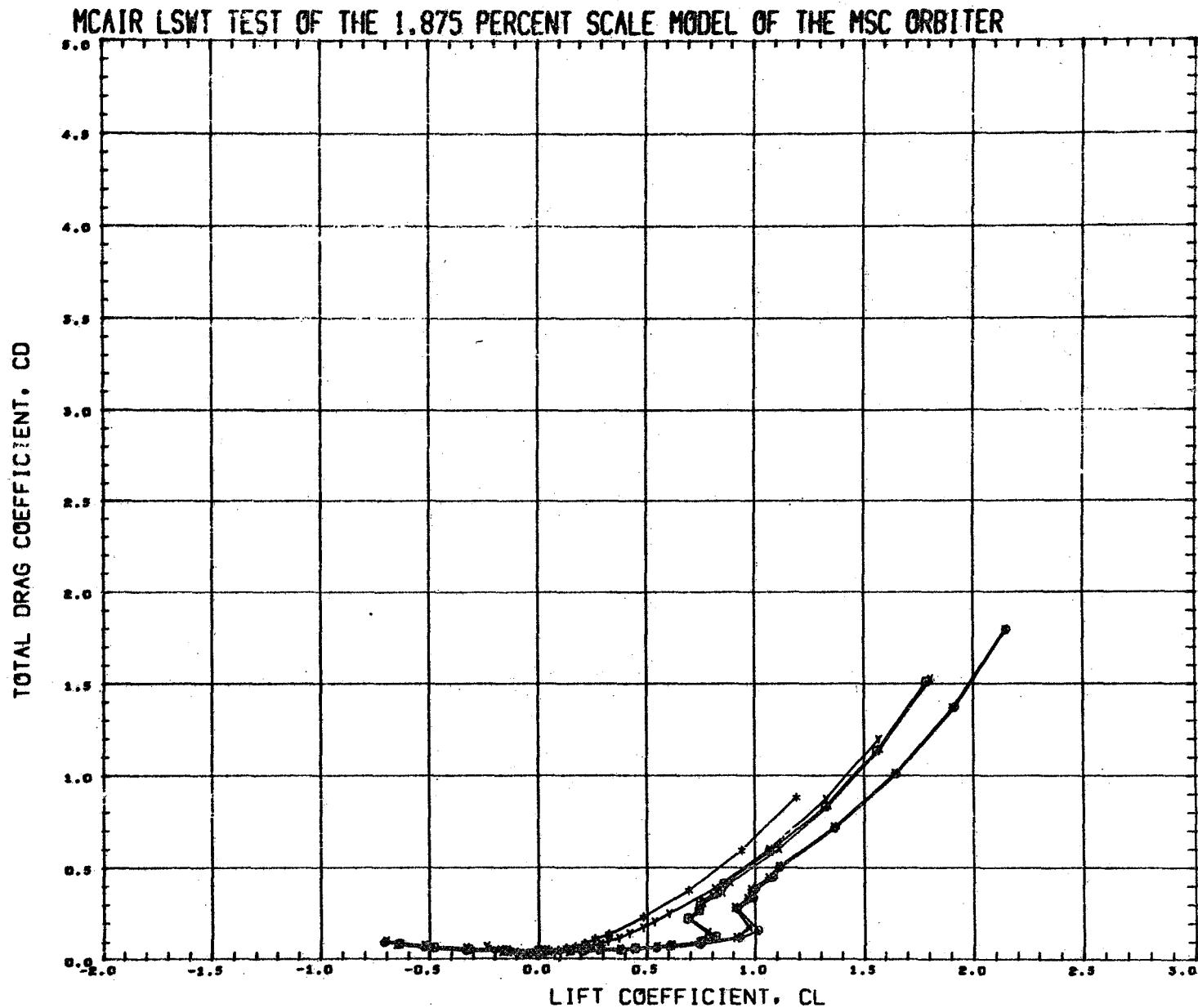


LIFT COEFFICIENT, CL

SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875% PC MOD SS ORB. B1
X	LSWT 223 1.875% PC MOD SS ORB. B1W1
O	LSWT 223 1.875% PC MOD SS ORB B1V3W1
G	LSWT 223 1.875% PC MOD SS ORB. B1H6W1
V	LSWT 223 1.875% PC MOD SS ORB. B1H6V3
x	LSWT 223 1.875% PC MOD SS ORB. B1H6V3W1 (FWD)

REFERENCE FILE SDY 37100150

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1000)	26 JUL 70	0.170	REFS 3.20800X10 ⁻⁰¹ Sq.FT.
(BC1011)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
(BC1042)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
(BC1051)	28 JUL 70		XMRP 1.38370X10 ⁺⁰¹ IN.
(BC1030)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
(BC1F08)	26 JUL 70		ZMRP 2.40000X10 ⁻⁰² IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

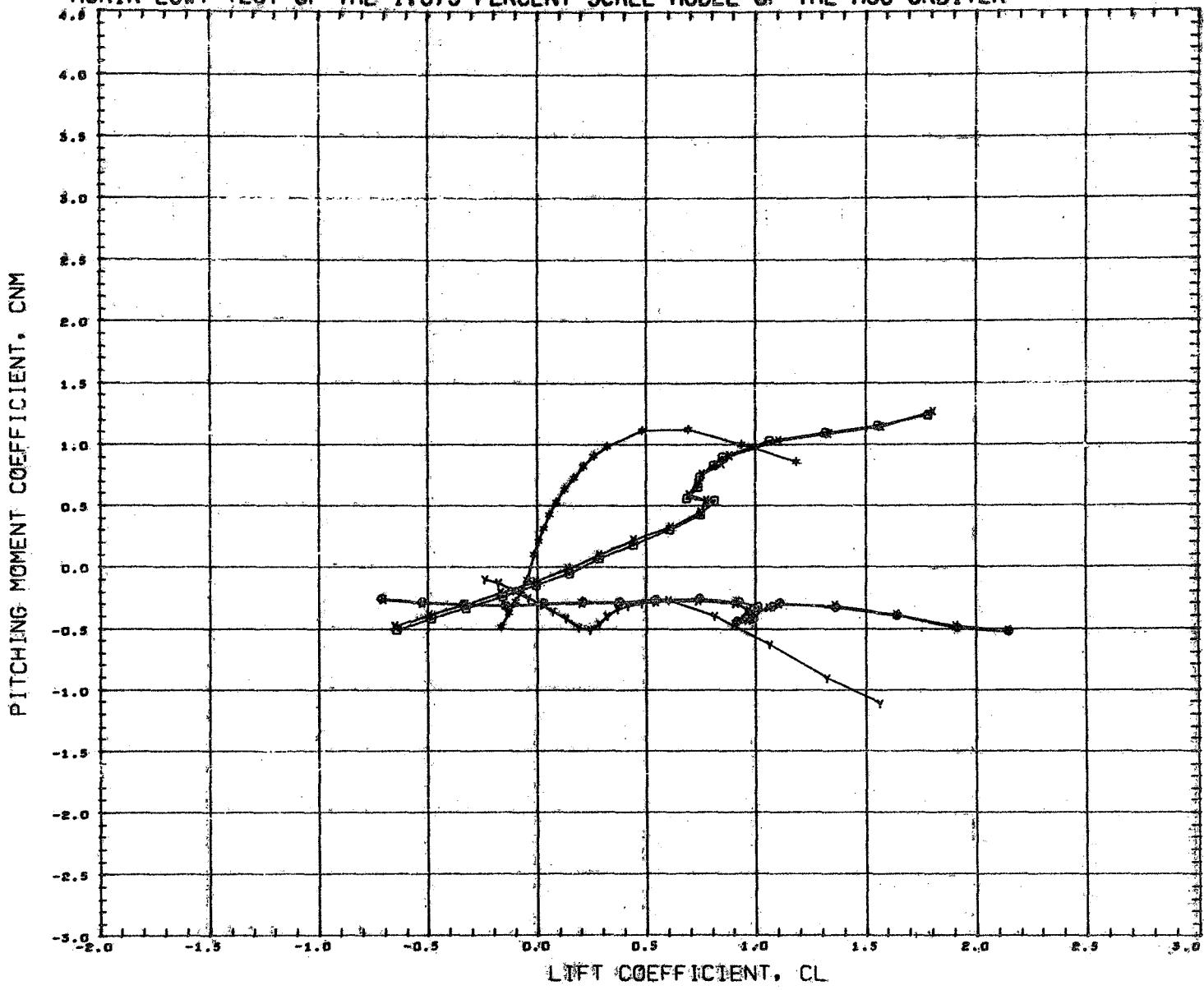


SYMBOL	CONFIGURATION DESCRIPTION
*	LSMT 223 1.875 PC MOD S5 ORB. B1
X	LSMT 223 1.875 PC MOD S5 ORB. B1W1
o	LSMT 223 1.875 PC MOD S5 ORB. B1V3W1
◊	LSMT 223 1.875 PC MOD S5 ORB. B1H6W1
+	LSMT 223 1.875 PC MOD S5 ORB. B1H6V3
x	LSMT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1001)	28 JUL 70	0.250	REFS 3.20800×10^{-01} SQ.FT.
(BC1010)	28 JUL 70		REFL $2.31700 \times 10^{+01}$ FT.
(BC1041)	28 JUL 70		REFB $1.50000 \times 10^{+00}$ FT.
(BC1050)	28 JUL 70		XNRP $1.38370 \times 10^{+01}$ IN.
(BC1051)	28 JUL 70		YNRP $0.00000 \times 10^{+00}$ IN.
(BC1F10)	28 JUL 70		ZHRP $2.40000 \times 10^{+00}$ IN.
			SCALE 1.87300×10^{-02} SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

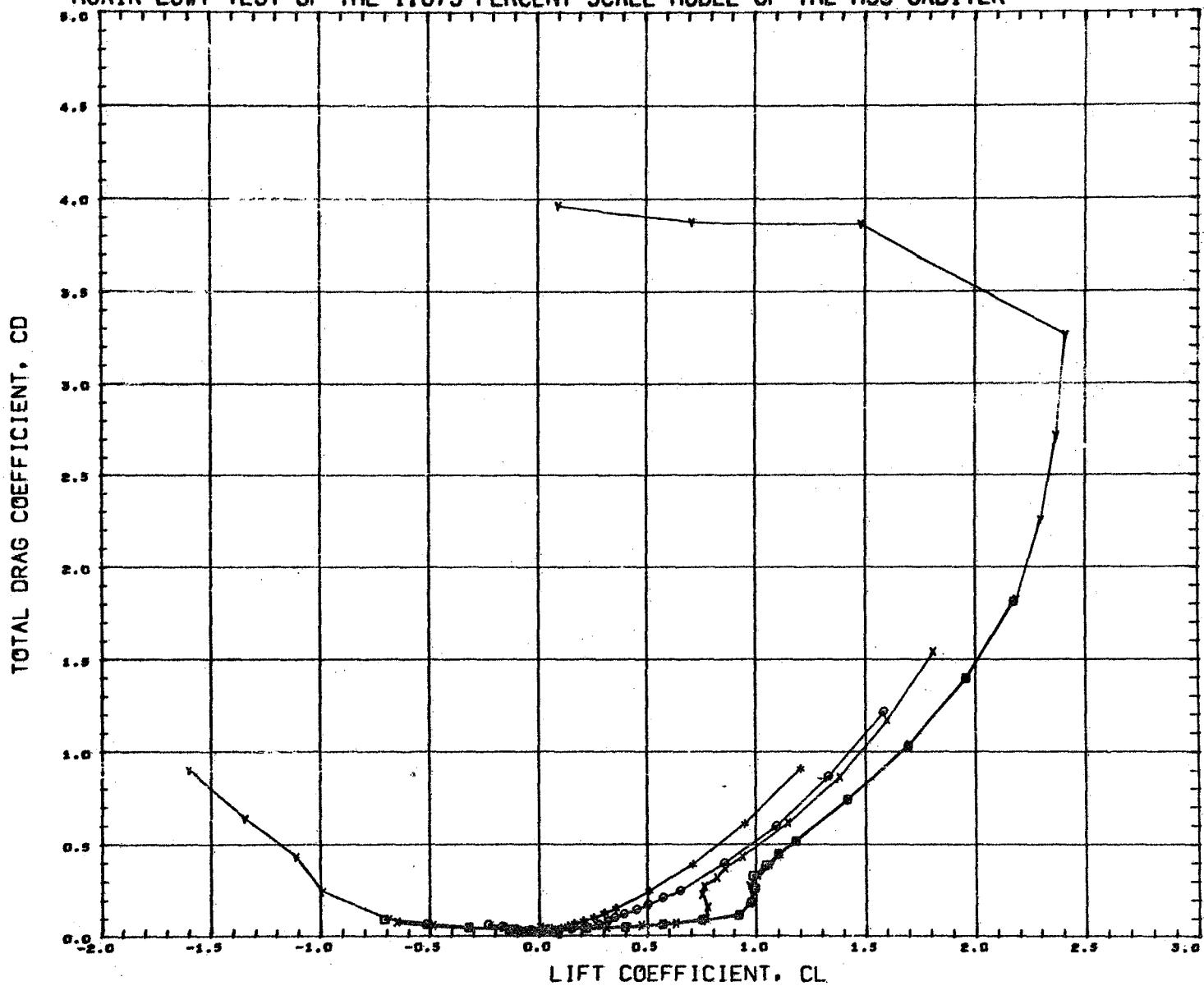


SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD 85 ORB. B1
X	LSWT 223 1.875 PC MOD 85 ORB. B1W1
G	LSWT 223 1.875 PC MOD 85 ORB. B1V3W1
O	LSWT 223 1.875 PC MOD 85 ORB. B1H6V1
Y	LSWT 223 1.875 PC MOD 85 ORB. B1H6V3
R	LSWT 223 1.875 PC MOD 85 ORB. B1H6V3W1 (FWD)

REFERENCE FILE SDY 37100150

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1001)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
(BC1010)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
(BC1041)	28 JUL 70		REFB 1.90600X10 ⁺⁰⁰ FT.
(BC1050)	28 JUL 70		XHRF 1.38370X10 ⁺⁰¹ IN.
(BC1031)	28 JUL 70		YHRF 0.00000X10 ⁺⁰⁰ IN.
(BC1F10)	28 JUL 70		ZHRF 2.40000X10 ⁻⁰² IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 FC MOD SS ORB. B1	(BC1002)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
x	LSWT 223 1.875 PC MOD SS ORB. B1W1	(BC1013)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
o	LSWT 223 1.875 FC MOD SS ORB. B1H6W1	(BC1053)	28 JUL 70		REFB 1.90000X10 ⁺⁰⁰ FT.
◊	LSWT 223 1.875 FC MOD SS ORB. B1H6V3	(BC1052)	28 JUL 70		XNRP 1.38370X10 ⁺⁰¹ IN.
v	LSWT 223 1.875 FC MOD SS ORB. B1H6B3W1 (FWD)	(CC1F01)	29 JUL 70		YHRP 0.00000X10 ⁺⁰⁰ IN.
					ZHRP 2.40000X10 ⁺⁰⁰ IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

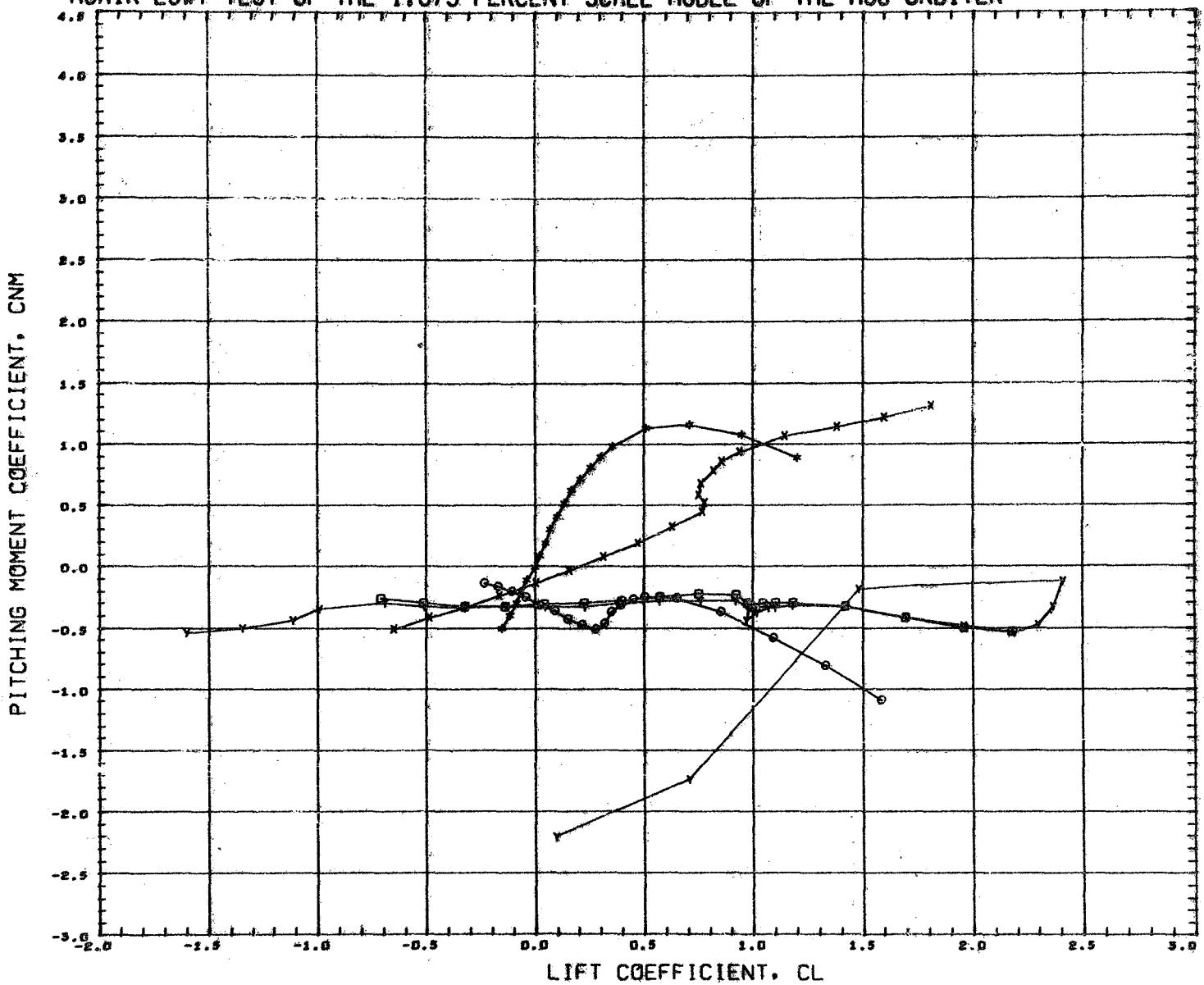
REFERENCE FILE

SDY 37100150

PAGE

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

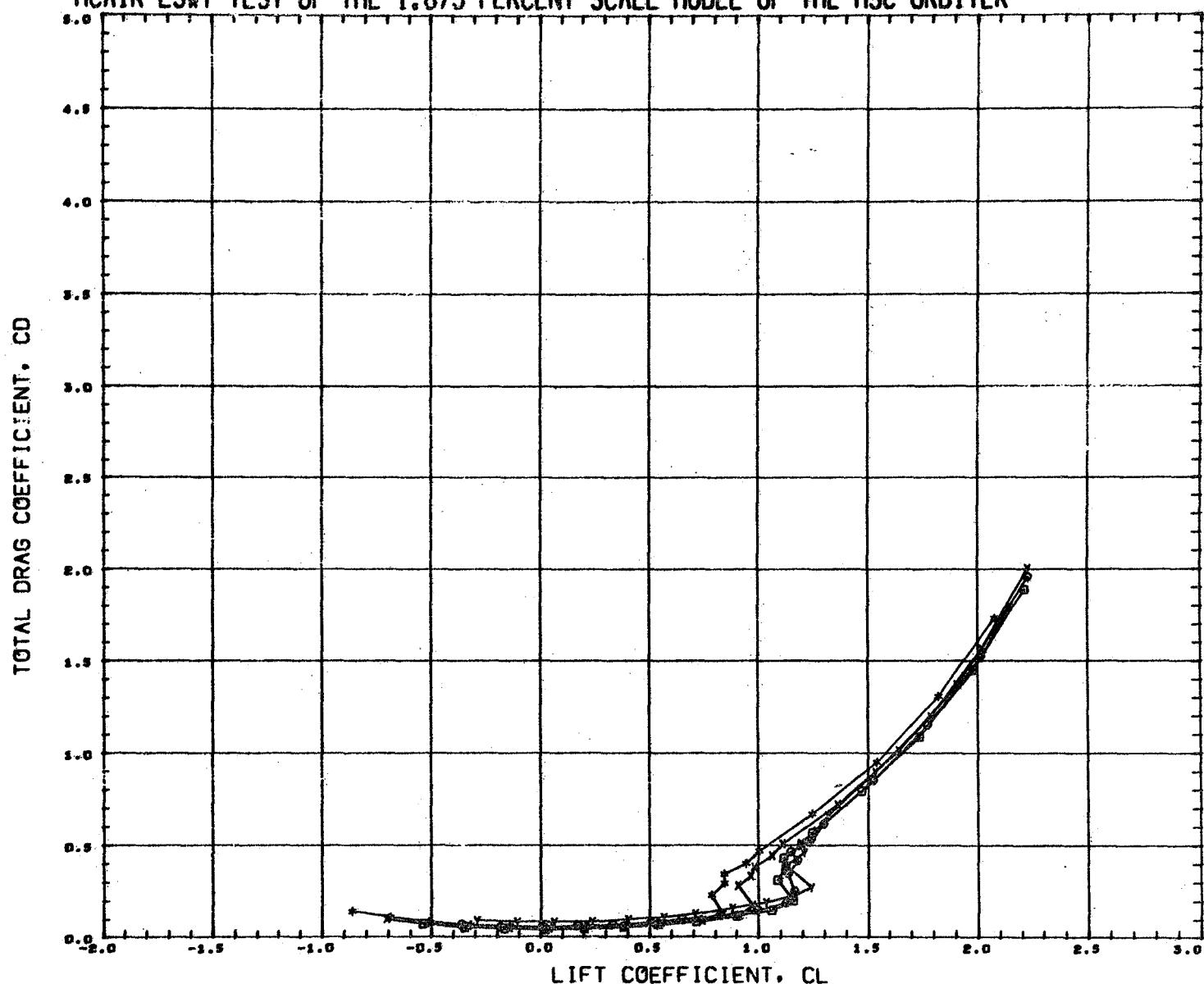


SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1H8W1
O	LSWT 223 1.875 PC MOD S5 ORB. B1H8V3
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H8B3W1 (FWD)

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1002)	28 JUL 70	0.250	REFS 3.20800×10^{-01} SQ.FT.
(BC1013)	28 JUL 70		REFL $2.31700 \times 10^{+00}$ FT.
(BC1053)	28 JUL 70		REFB $1.50000 \times 10^{+01}$ FT.
(BC1032)	28 JUL 70		XHPR $1.38370 \times 10^{+01}$ IN.
(CC1F01)	29 JUL 70		YHPR $0.00000 \times 10^{+00}$ IN.
			ZHPR $2.40000 \times 10^{+02}$ IN.
			SCALE 1.87500×10^{-02} SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD 85 ORB. B1H6V3W1 (FWD)	(BC1F05)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
x	LSWT 223 1.875 PC MOD 85 ORB. B1H6V3W1 (FWD)	(BC1F10)	28 JUL 70	0.250	REFL 2.31700X10 ⁺⁰⁰ FT.
o	LSWT 223 1.875 PC MOD 85 ORB. B1H6V3W1 (FWD)	(BC1F04)	28 JUL 70	0.250	REFB 1.50000X10 ⁺⁰¹ FT.
●	LSWT 223 1.875 PC MOD 85 ORB. B1H6V3W1 (FWD)	(BC1F08)	28 JUL 70	0.250	XHRP 1.36370X10 ⁺⁰⁰ IN.
+	LSWT 2P3 1.875 PC MOD 85 ORB. B1H6V3W1 (FWD)	(BC1F07)	28 JUL 70	0.250	YHRP 0.00000X10 ⁺⁰⁰ IN.
					ZHRP 2.40000X10 ⁺⁰⁰ IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

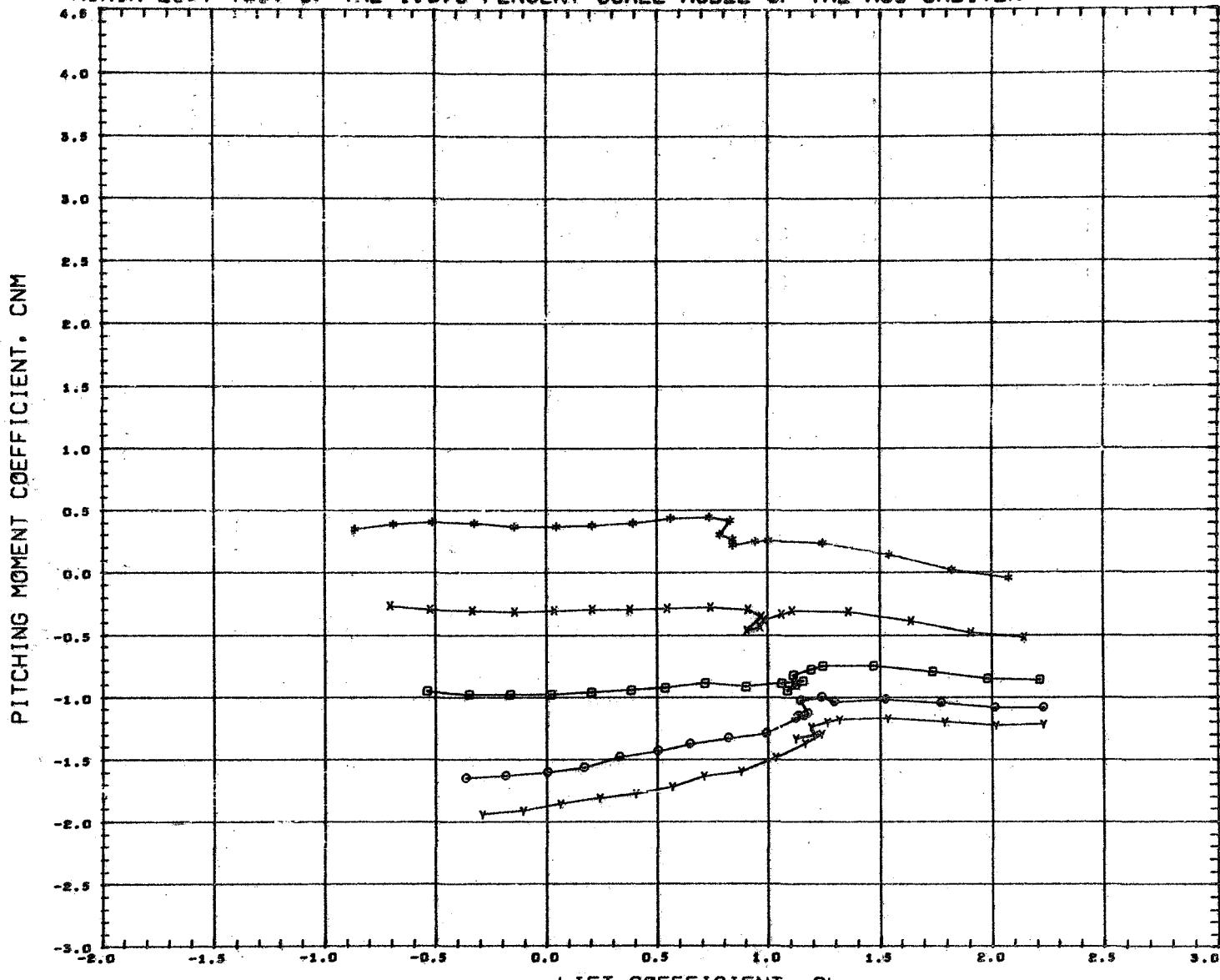
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SDY 37100150

PAGE

7

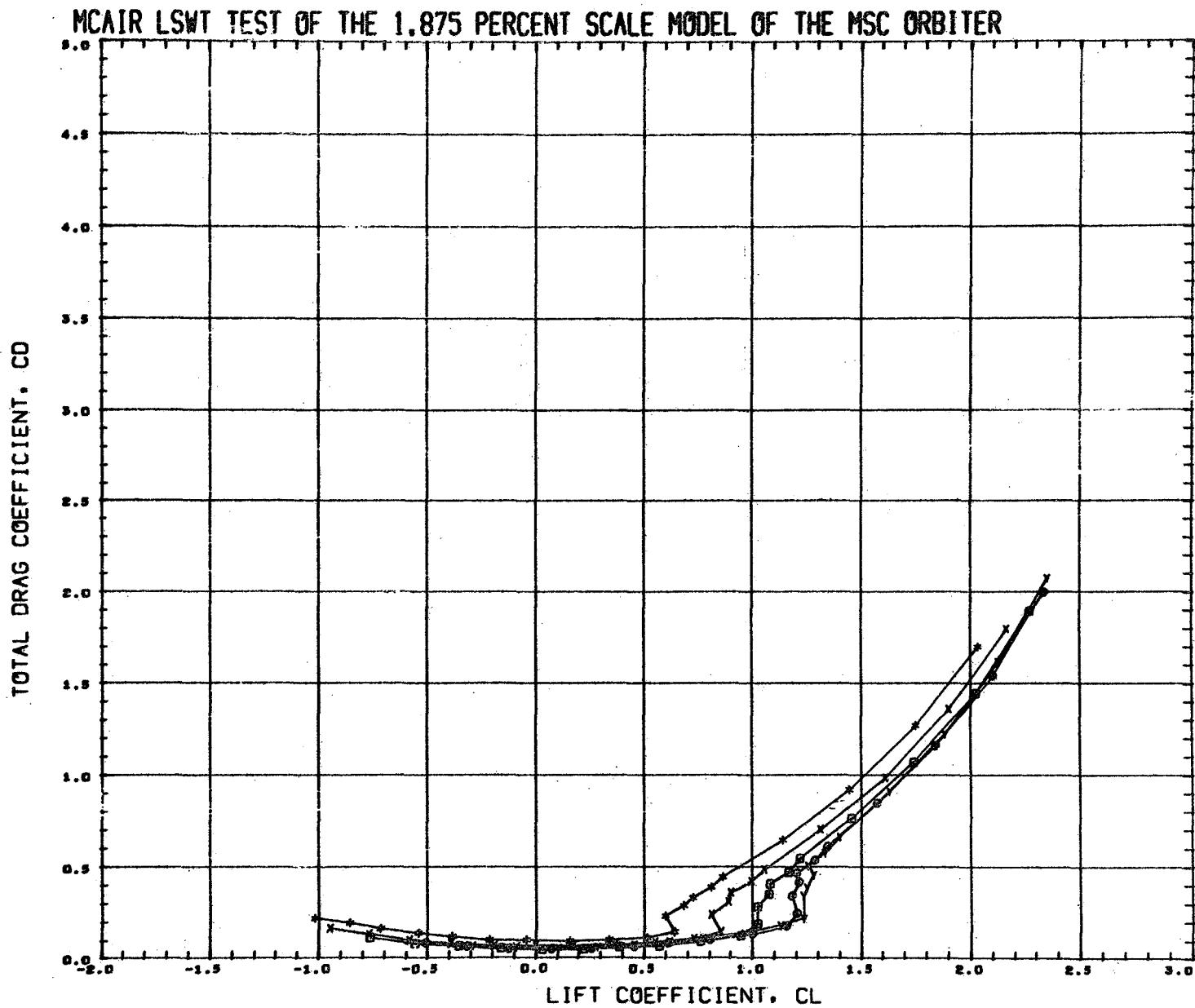
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F05)	26 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F10)	26 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F04)	26 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
O	LSWT 223 1.875 FC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F06)	26 JUL 70		XMRP 1.38370X10 ⁺⁰¹ IN.
Y	LSWT 223 1.875 FC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F07)	26 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
					ZMRP 2.40000X10 ⁺⁰⁰ IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

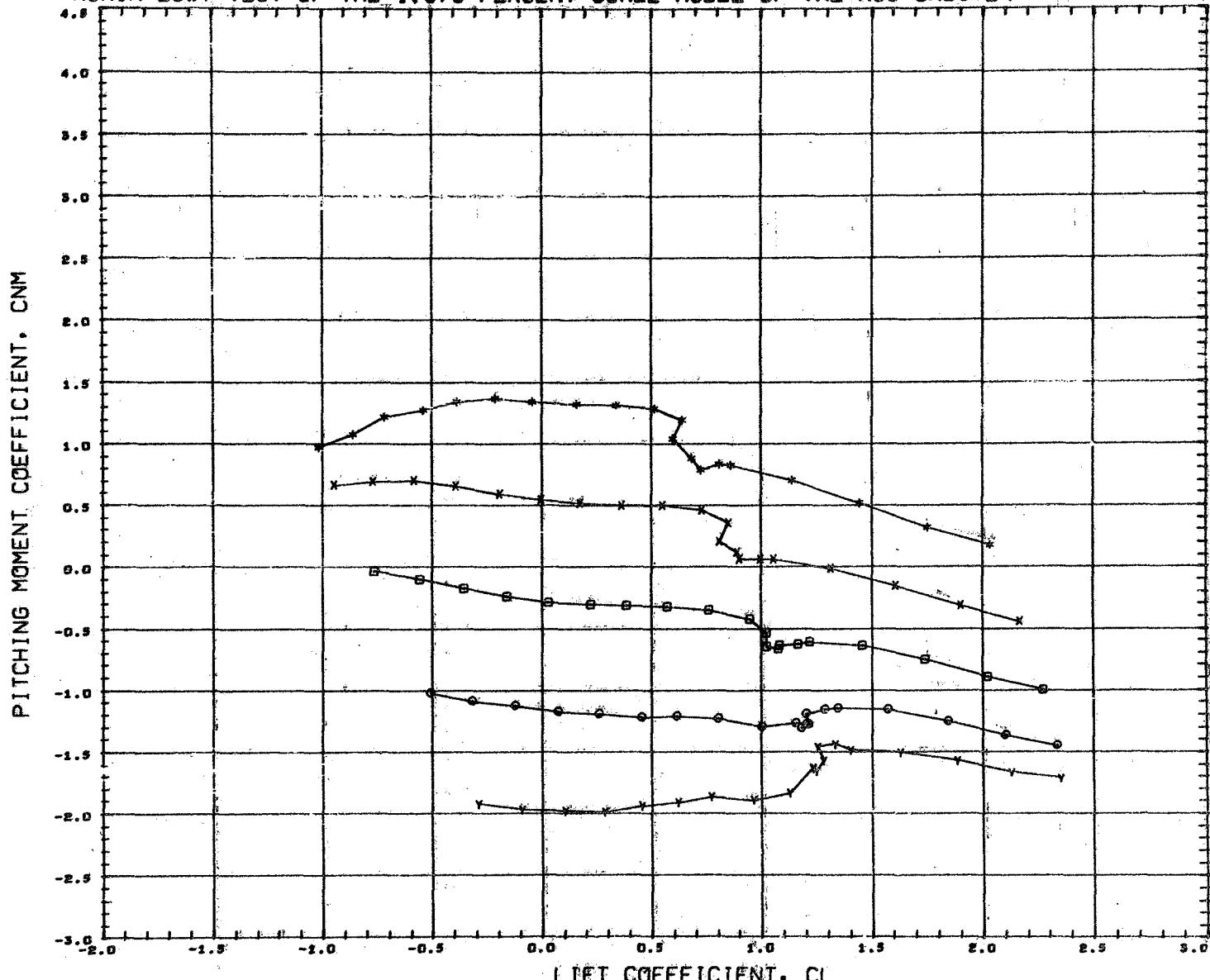


SYMBOL	CONFIGURATION DESCRIPTION
•	LSWT 223 1.875 FC MOD S5 ORB B1H12V3W1
X	LSWT 223 1.875 FC MOD S5 ORB B1H12V3W1
□	LSWT 223 1.875 FC MOD S5 ORB B1H12V3W1
○	LSWT 223 1.875 FC MOD S5 ORB B1H12V3W1
▽	LSWT 223 1.875 FC MOD S5 ORB B1H12V3W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1073)	26 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SE. FT.
(BC1072)	26 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(BC1070)	26 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
(BC1071)	26 JUL 70		XMRP 1.38370X10 ⁺⁰¹ IN.
(BC1074)	26 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
			ZMRP 2.40000X10 ⁺⁰⁰ IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1,875 PERCENT SCALE MODEL OF THE MSC ORBITER



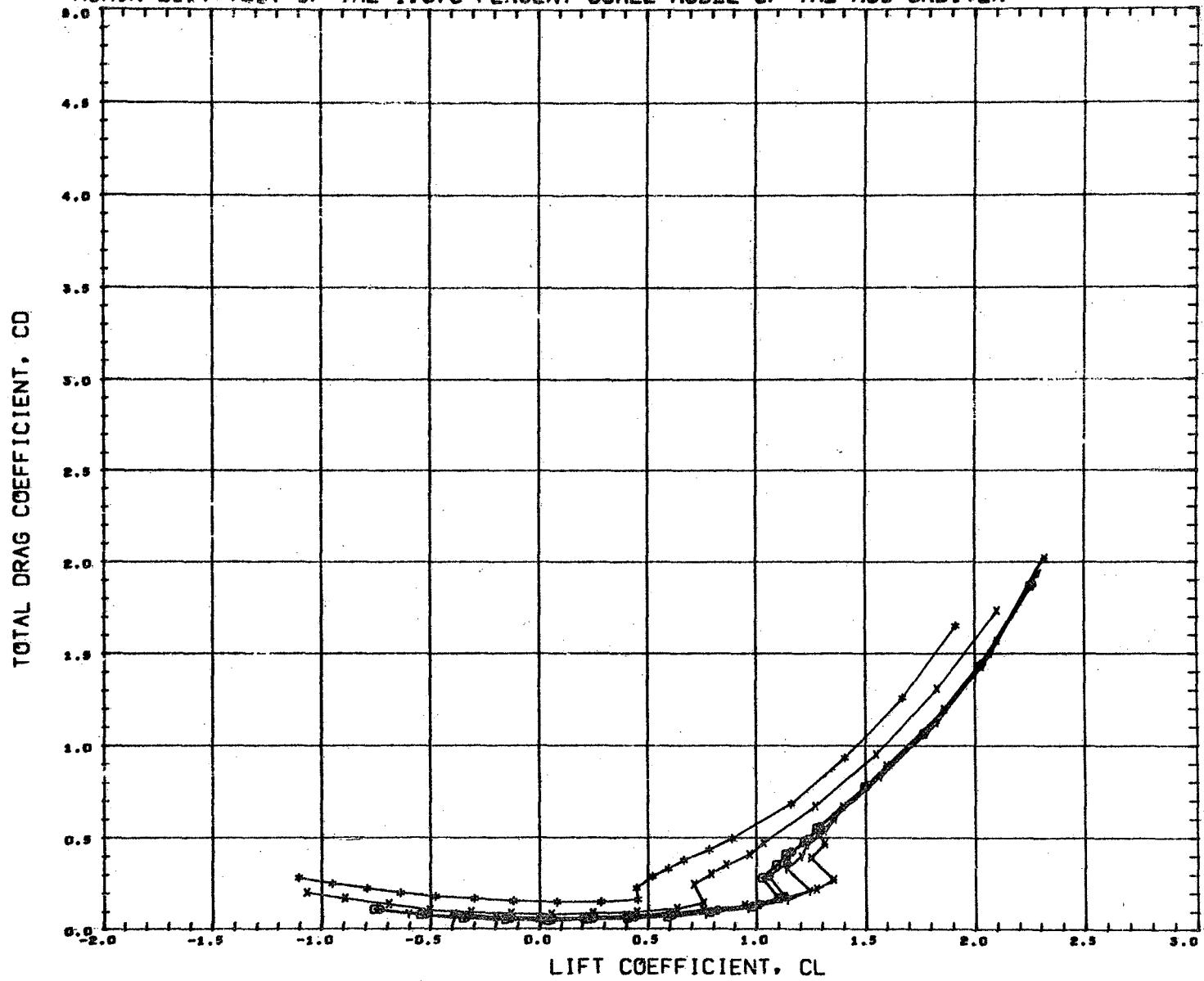
SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD 55 ORB B1H12V3W1
X	LSWT 223 1.875 PC MOD 55 ORB B1H12V3L1
□	LSWT 223 1.875 PC MOD 55 ORB B1H12V3W2
○	LSWT 223 1.875 PC MOD 55 ORB B1H12V3W1
▽	LSWT 223 1.875 PC MOD 55 ORB B1H12V3W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1073)	28 JUL 70	0.250	REFS 3.2000X10 ⁻⁰¹ SQ.FT.
(BC1072)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
(BC1070)	28 JUL 70		REFB 1.50000X10 ⁻⁰¹ FT.
(BC1071)	28 JUL 70		XMRP 1.38370X10 ⁺⁰⁰ IN.
(BC1074)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
			ZMRP 2.40000X10 ⁻⁰² IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

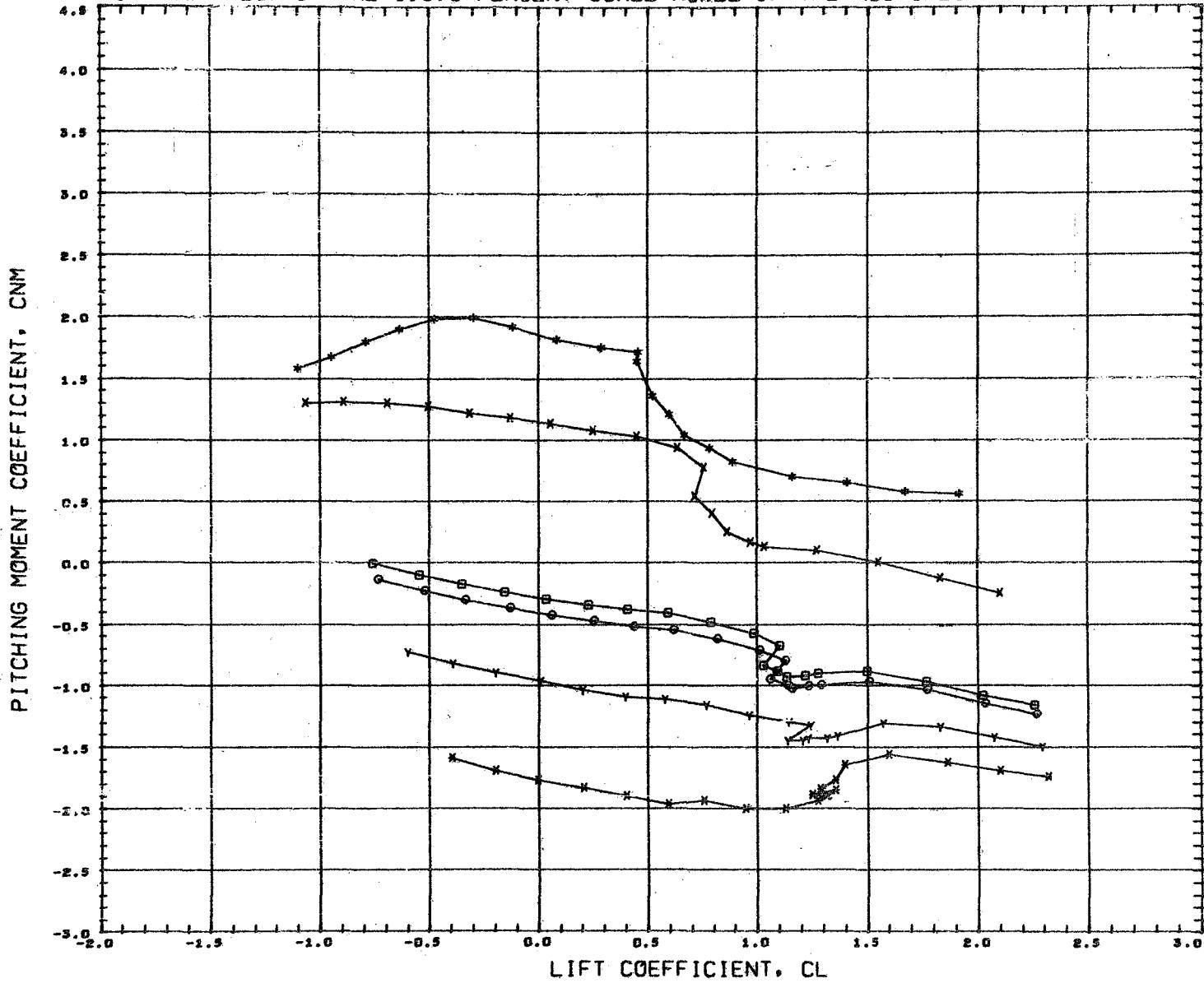


SYMBOL CONFIGURATION DESCRIPTION:
 * LSWT 223 1.875 PC MOD 55 ORB. B1H013V3W1
 X LSWT 223 1.875 PC MOD 55 ORB. B1H013V3W1
 O LSWT 223 1.875 PC MOD 55 ORB. B1H013V3W1
 C LSWT 223 1.875 PC MOD 55 ORB. B1H013V3W1
 V LSWT 223 1.875 PC MOD 55 ORB. B1H013V3W1
 X LSWT 223 1.875 PC MOD 55 ORB. B1H013V3W1

REFERENCE FILE SDY 37100150

DATA SET DATE MACH REFERENCE INFORMATION
 (BC1607) 28 JUL 70 0.250 REFS 3.2D800X10⁻⁰¹ SQ.FT.
 (BC1606) 28 JUL 70 REFL 2.31700X10⁺⁰⁰ FT.
 (BC1605) 28 JUL 70 REFb 1.90000X10⁺⁰¹ FT.
 (BC1602) 28 JUL 70 XMRP 1.38370X10⁺⁰¹ IN.
 (BC1603) 28 JUL 70 YMRF 0.00000X10⁺⁰⁰ IN.
 (BC1604) 28 JUL 70 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



LIFT COEFFICIENT, CL

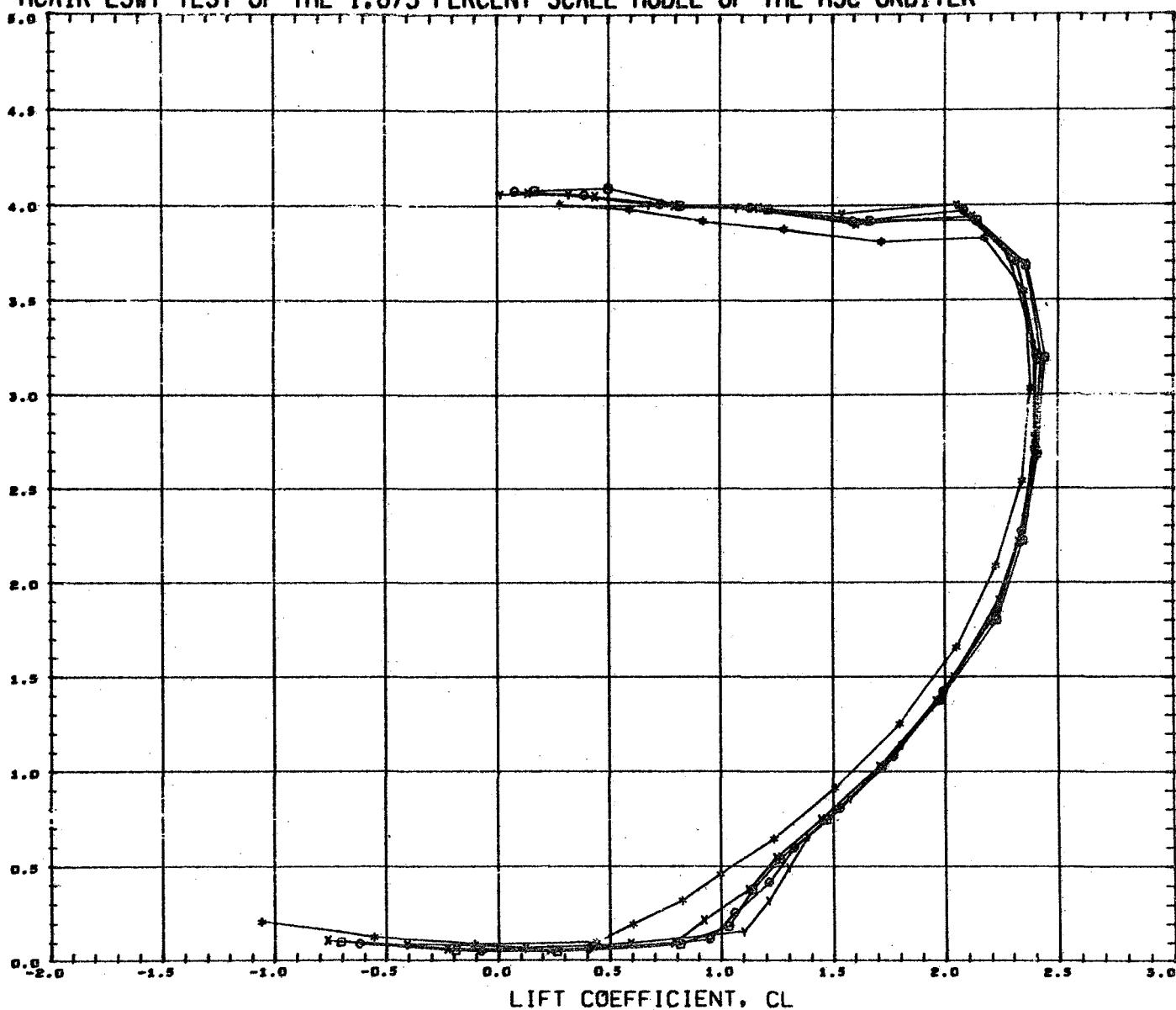
SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD SS ORB. B1H013V3W1	(BC1607)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
x	LSWT 223 1.875 PC MOD SS ORB. B1H013V3W1	(BC1606)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
o	LSWT 223 1.875 PC MOD SS ORB. B1H013V3W1	(BC1605)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
●	LSWT 223 1.875 PC MOD SS ORB. B1H013V3W1	(BC1602)	28 JUL 70		XHRP 1.38370X10 ⁺⁰¹ IN.
◇	LSWT 223 1.875 PC MOD SS ORB. B1H013V3W1	(BC1603)	28 JUL 70		YHRP 0.00000X10 ⁺⁰⁰ IN.
■	LSWT 223 1.875 PC MOD SS ORB. B1H013V3W1	(BC1604)	28 JUL 70		ZHRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

TOTAL DRAG COEFFICIENT, CD

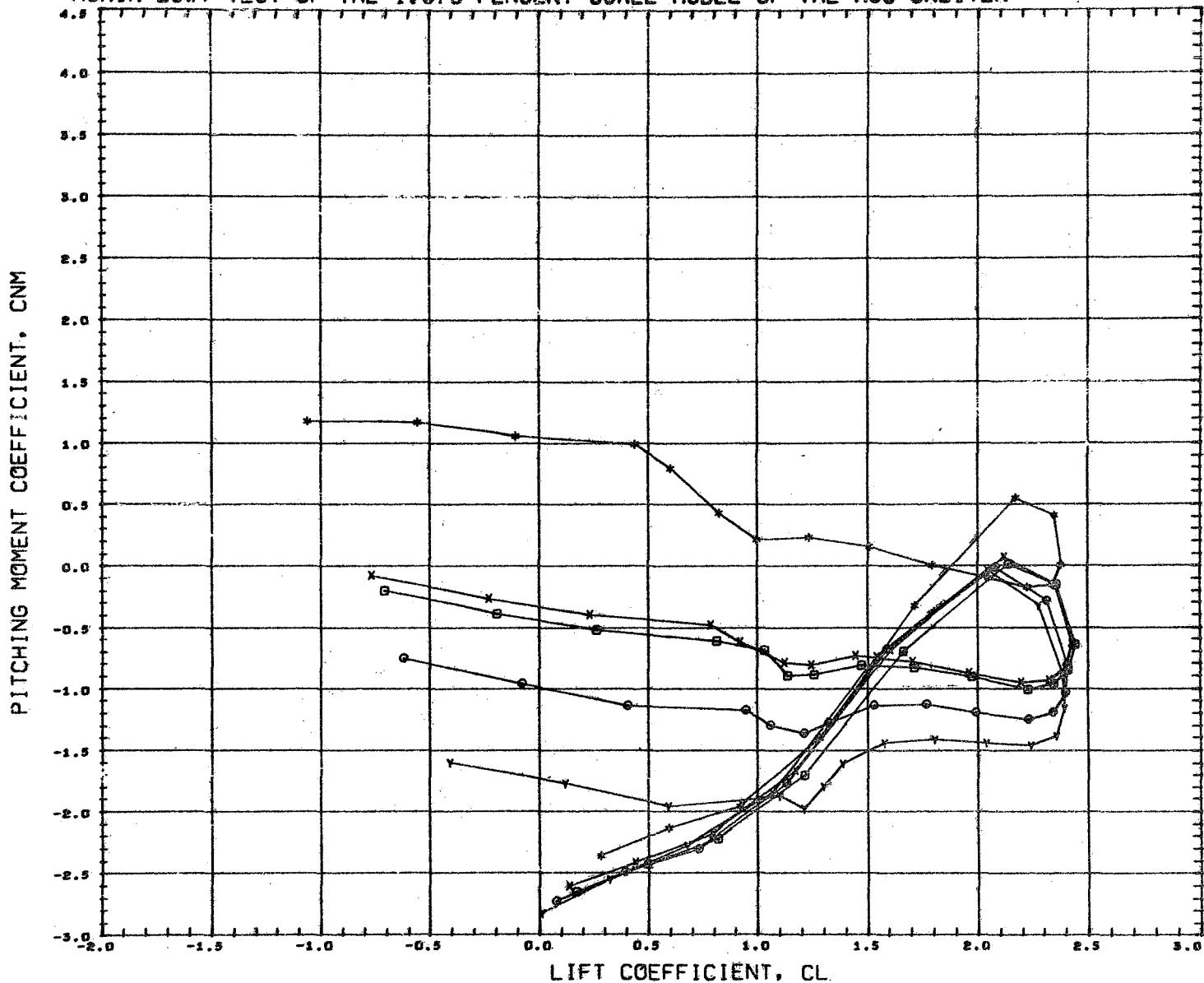


SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. BIH1513V3W1
x	LSWT 223 1.875 PC MOD S5 ORB. BIH1513V3W1
o	LSWT 223 1.875 PC MOD S5 ORB. BIH1513V3W1
v	LSWT 223 1.875 PC MOD S5 ORB. BIH1513V3W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1H12)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
(BC1H10)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(BC1H01)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
(BC1H06)	28 JUL 70		XMRP 1.38370X10 ⁺⁰⁰ IN.
(BC1H07)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
			ZMRP 2.40000X10 ⁻⁰² IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

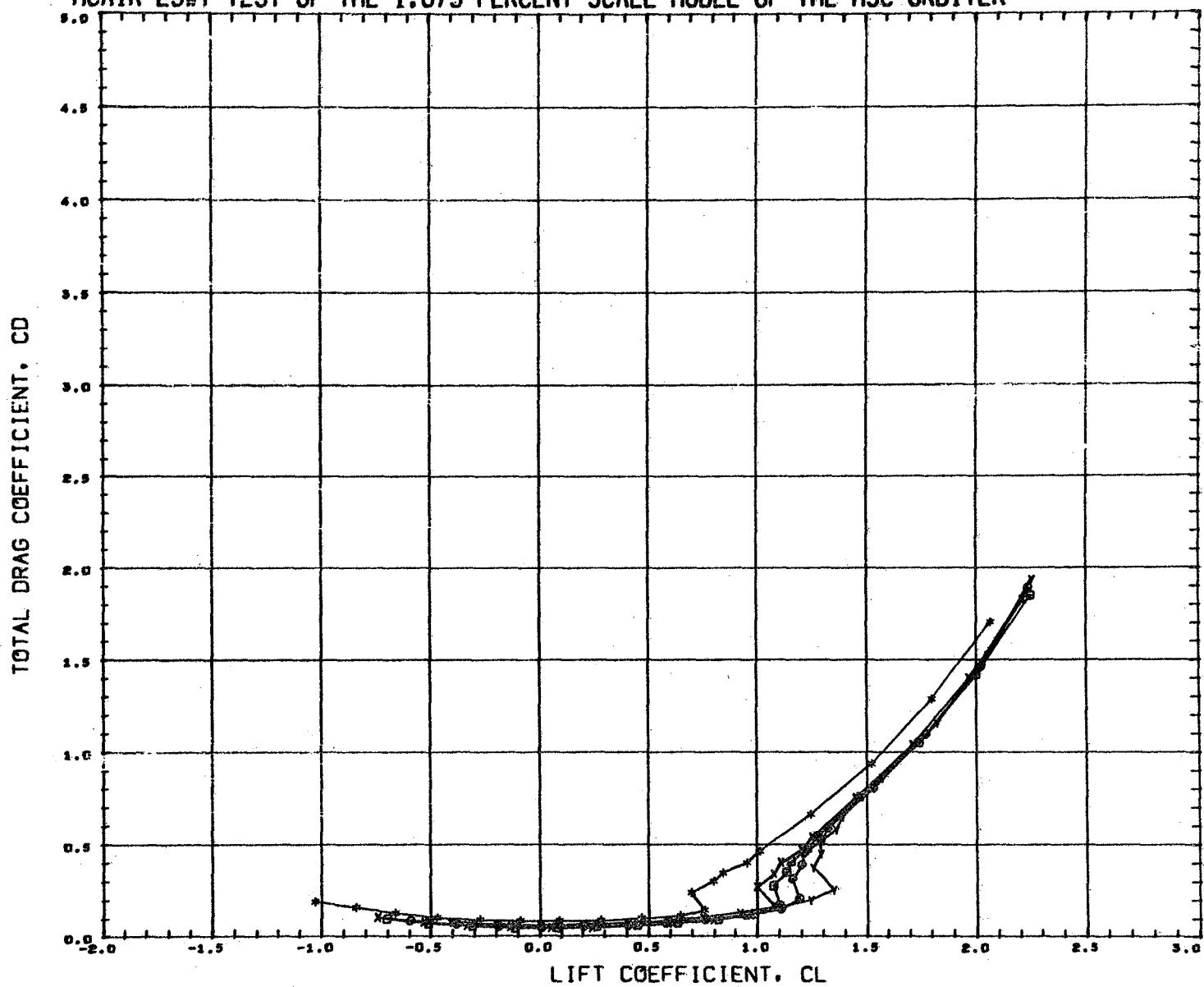


SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD 55 ORB. B1H1513V3W1
X	LSWT 223 1.875 PC MOD 55 ORB. B1H1513V3W1
o	LSWT 223 1.875 PC MOD 55 ORB. B1H1513V3W1
□	LSWT 223 1.875 PC MOD 55 ORB. B1H1513V3W1
Δ	LSWT 223 1.875 FC MOD 55 ORB. B1H1513V3W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1H12)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
(BC1H10)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(BC1H01)	28 JUL 70		REFB 1.50000X10 ⁻⁰¹ FT.
(BC1H06)	28 JUL 70		XMRP 1.38370X10 ⁻⁰¹ IN.
(BC1H07)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
			ZMRP 2.40000X10 ⁻⁰² IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

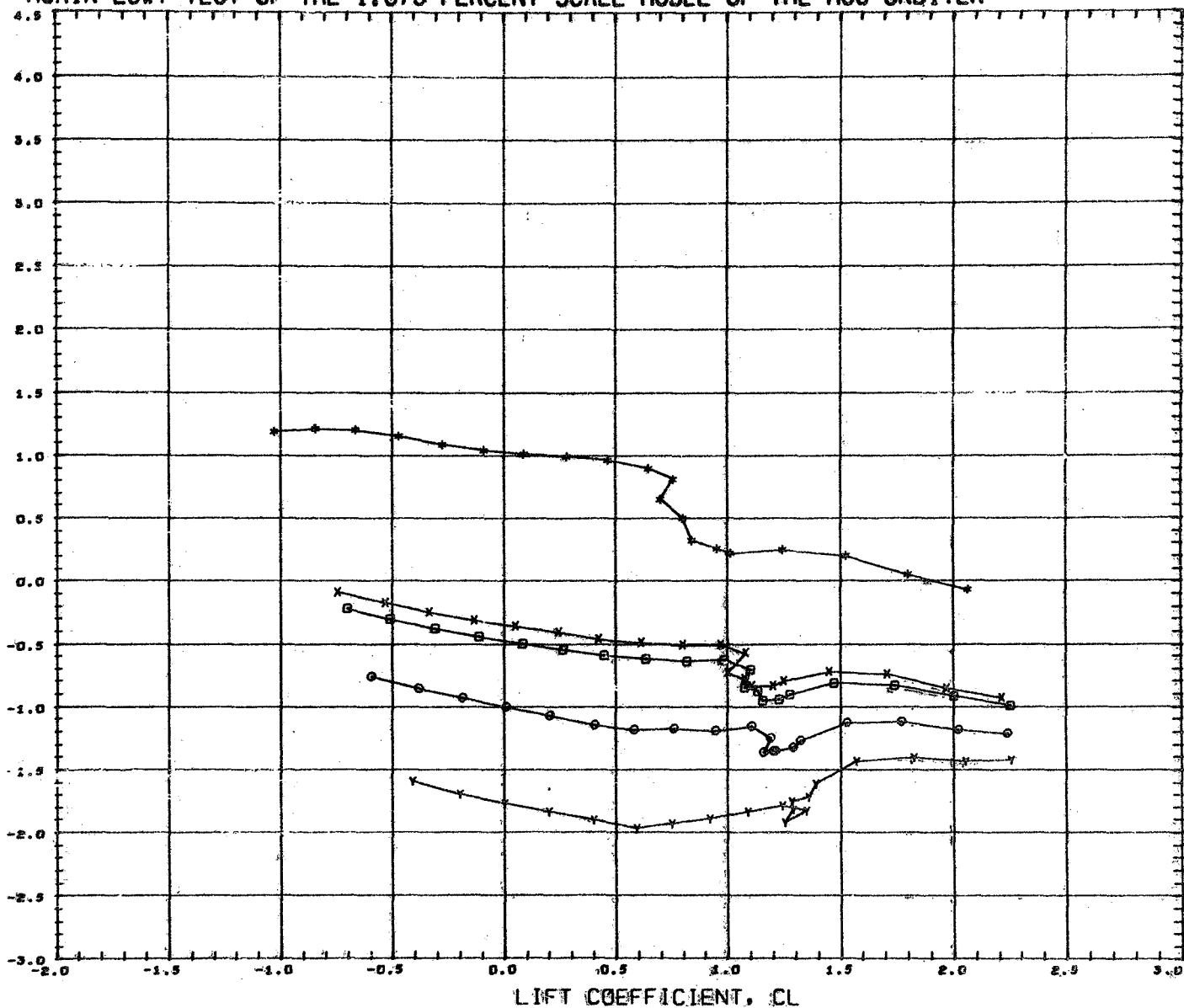


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H11)	28 JUL 70	0.250	REFS 3.20000X10 ⁻⁰¹ SG.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H09)	28 JUL 70	0.250	REFL 2.31700X10 ⁻⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H00)	28 JUL 70	0.250	REFB 1.50000X10 ⁺⁰¹ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H05)	28 JUL 70	0.250	XHRF 1.38370X10 ⁺⁰⁰ IN.
V	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H06)	28 JUL 70	0.250	YHRF 0.09000X10 ⁺⁰⁰ IN.
					ZHRF 2.40000X10 ⁻⁰⁰ IN.
					SCALE 1.67500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CM

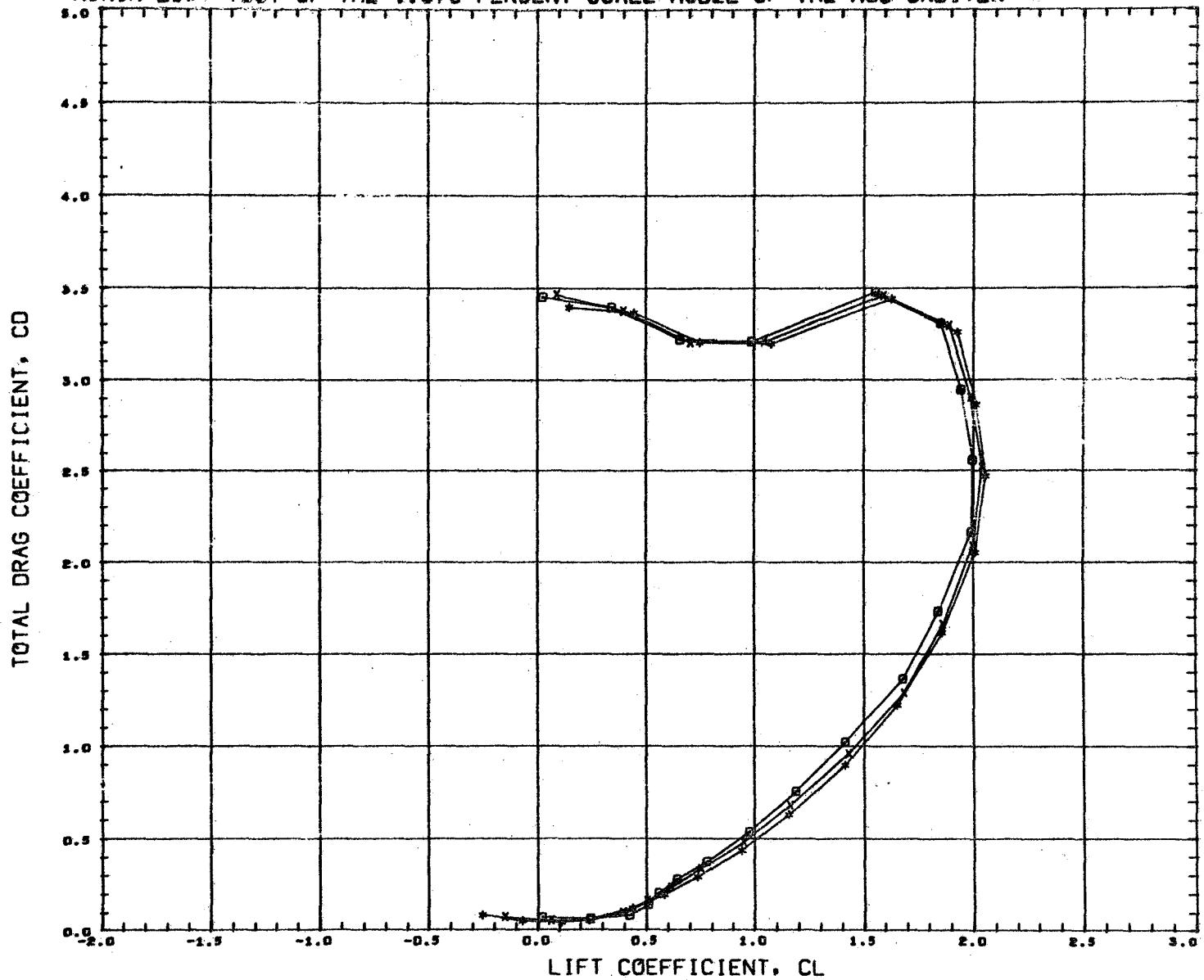


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD '85 ORB. B1H1515V3W1	(BC1H11)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD '85 ORB. B1H1515V3W1	(BC1H09)	28 JUL 70	0.250	REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD '85 ORB. B1H1515V3W1	(BC1H00)	28 JUL 70	0.250	REFB 1.50000X10 ⁺⁰¹ FT.
O	LSWT 223 1.875 PC MOD '85 ORB. B1H1515V3W1	(BC1H05)	28 JUL 70	0.250	XMRP 1.36370X10 ⁺⁰⁰ IN.
Y	LSWT 223 1.875 PC MOD '85 ORB. B1H1515V3W1	(BC1H08)	28 JUL 70	0.250	ZMRP 0.00000X10 ⁺⁰⁰ IN.

REFERENCE FILE SDY 37100150

SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



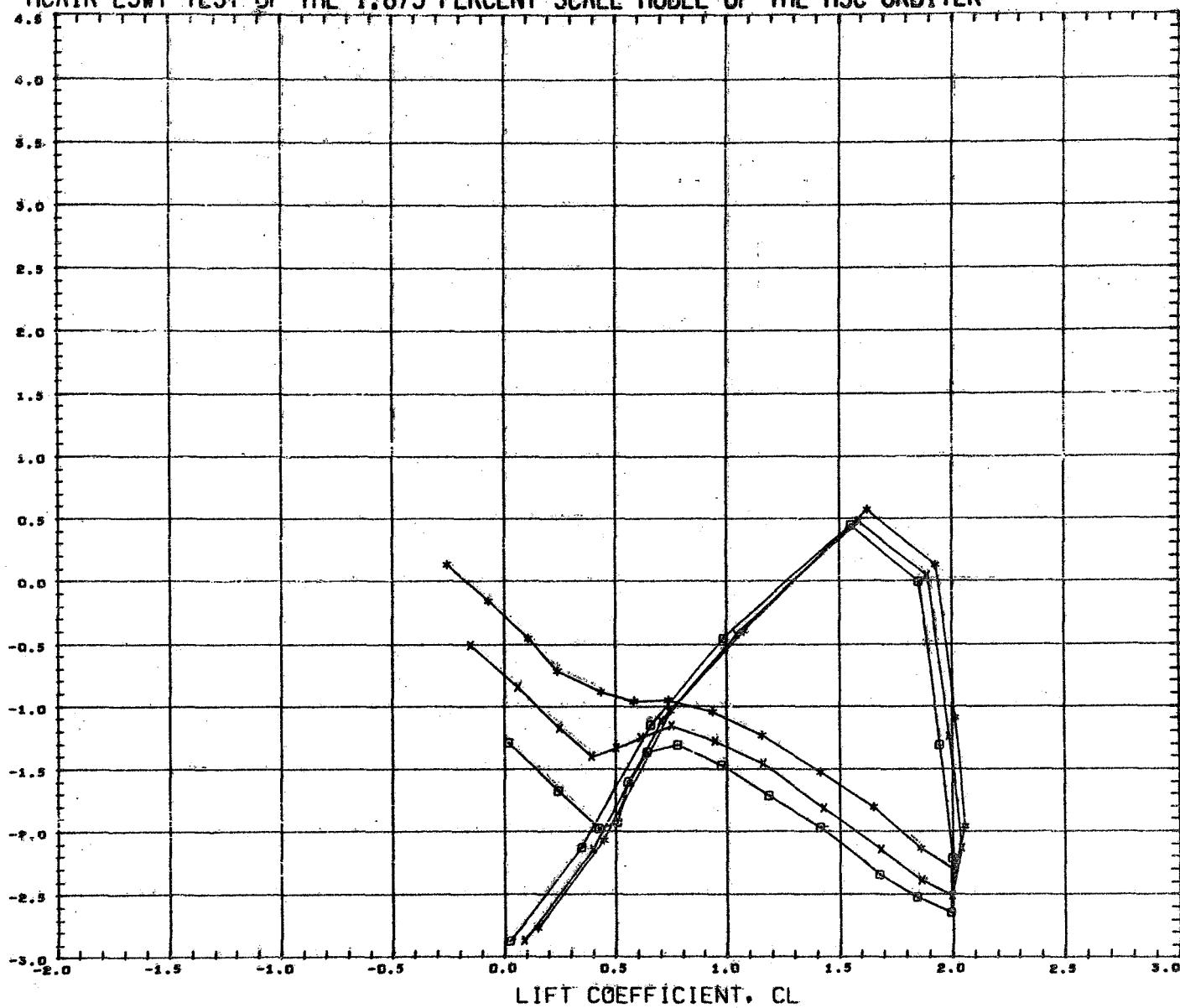
SYMBOL	CONFIGURATION DESCRIPTION
●	LSWT 223 1.875 PC MOD S5 ORB B1H1513V3
X	LSWT 223 1.875 PC MOD S5 ORB B1H1513V3
◻	LSWT 223 1.875 PC MOD S5 ORB B1H1513V3

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1062)	28 JUL 70	0.170	REFS 3.20800×10^{-01} SG.FT.
(BC1064)	28 JUL 70		REFL $2.31700 \times 10^{+00}$ FT.
(BC1061)	28 JUL 70		REFB $1.50000 \times 10^{+01}$ FT.
			XNRP $1.38370 \times 10^{+01}$ IN.
			YNRP $0.00000 \times 10^{+00}$ IN.
			ZNRP $2.40000 \times 10^{+00}$ IN.
			SCALE 1.87500×10^{-02} SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

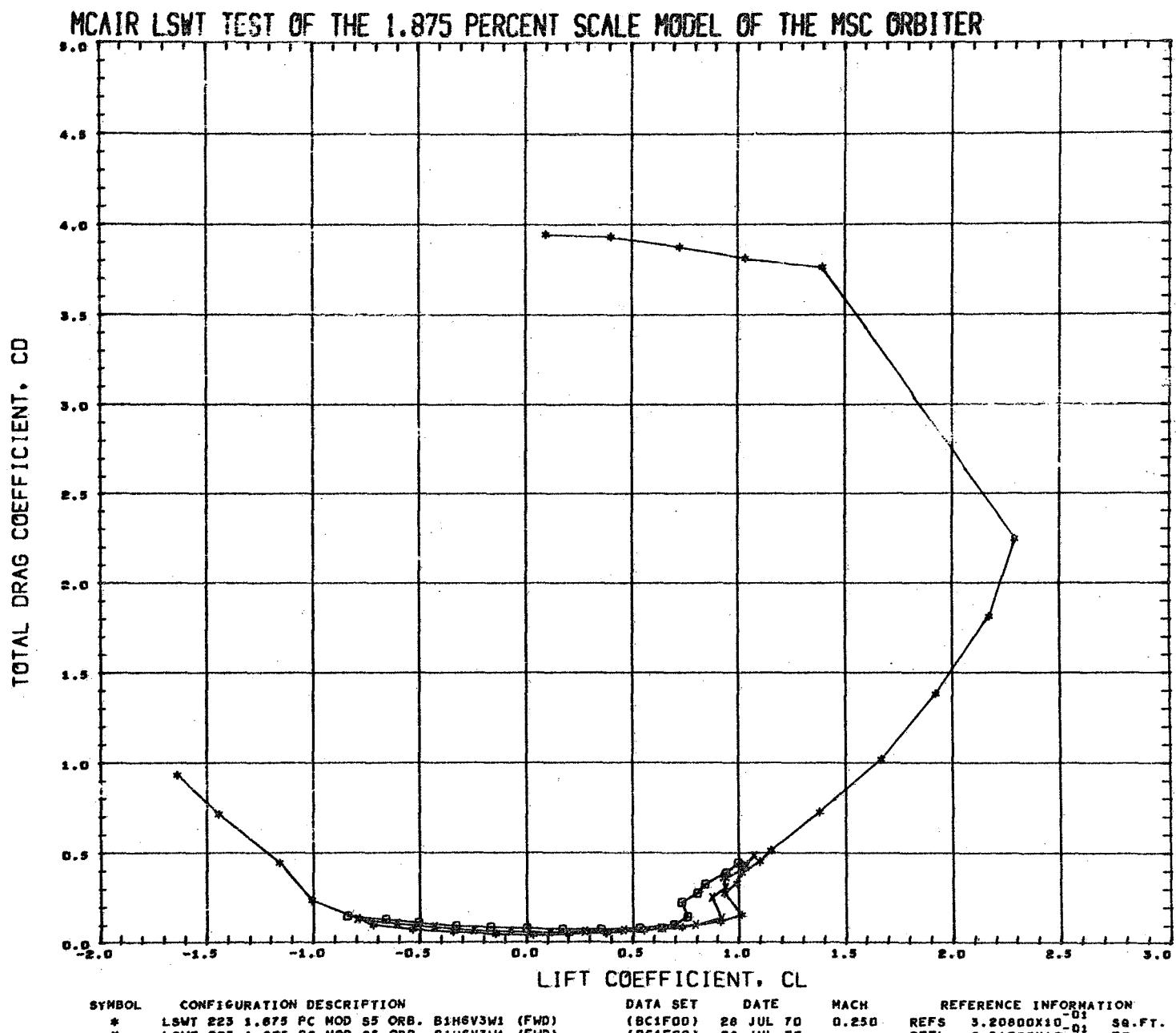
PITCHING MOMENT COEFFICIENT, CNM



SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S3 ORB B1H1513V3
 X LSWT 223 1.875 PC MOD S3 ORB B1H1513V3
 □ LSWT 223 1.875 PC MOD S3 ORB B1H1513V3

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1062)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰³ SQ.FT.
(BC1064)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(BC1061)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
			XMRP 1.38370X10 ⁺⁰⁰ IN.
			YMRP 0.00000X10 ⁺⁰⁰ IN.
			ZMRP 2.40000X10 ⁻⁰² IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150



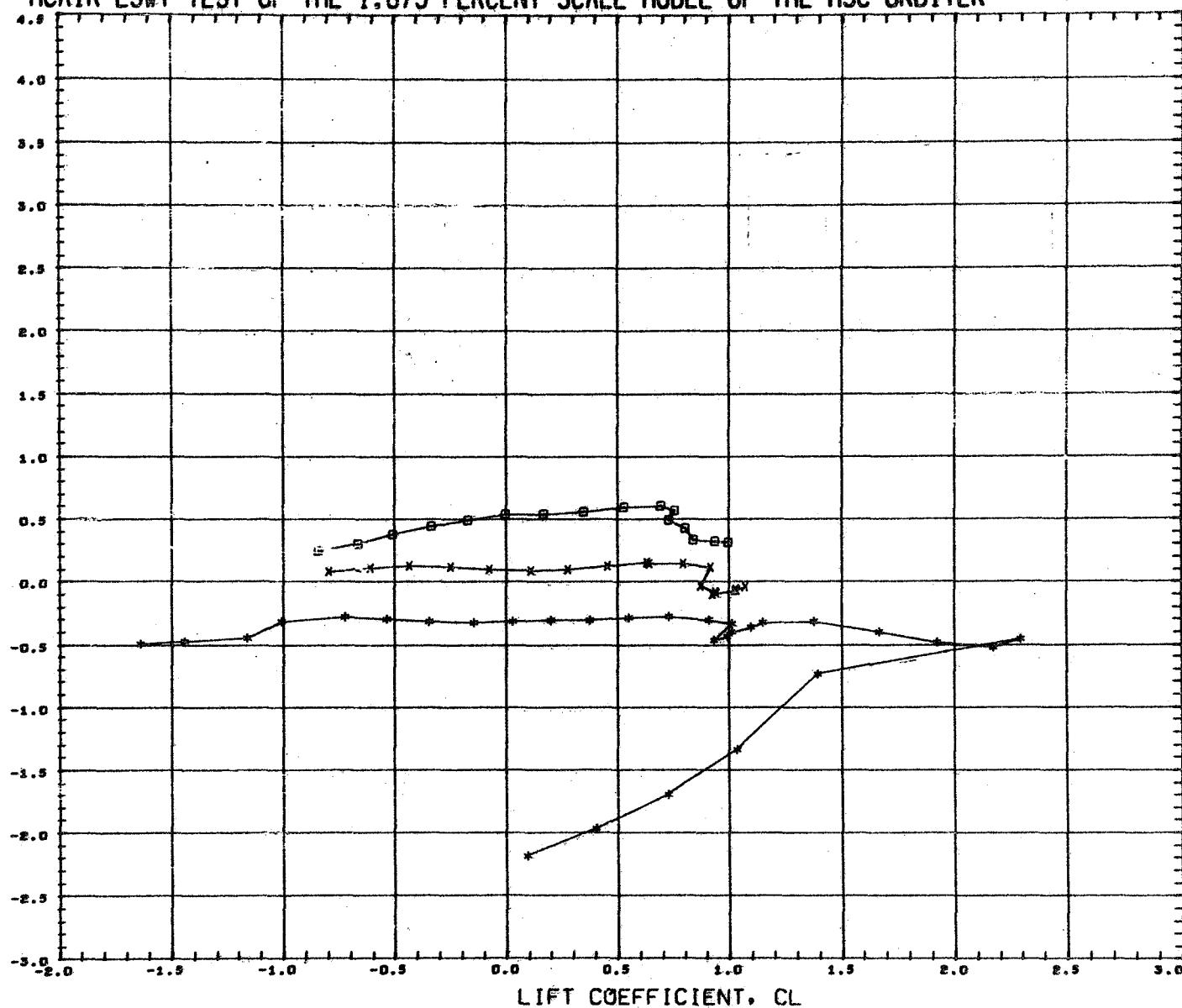
REFERENCE FILE : SDY 37100150

DATA SET DATE MACH REFERENCE INFORMATION
 (BC1F00) 28 JUL 70 0.250
 (BC1F02) 28 JUL 70
 (BC1F03) 28 JUL 70

REFS	3.20800×10^{-01}	SQ.FT.
REFL	$2.31700 \times 10^{+00}$	FT.
REFB	$1.50000 \times 10^{+00}$	FT.
XMRP	$1.38370 \times 10^{+01}$	IN.
YMRP	$0.00000 \times 10^{+00}$	IN.
ZMRP	2.40000×10^{-02}	IN.
SCALE	1.87500×10^{-02}	SCALE

MCAIR LSWT TEST OF THE 1,875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CM



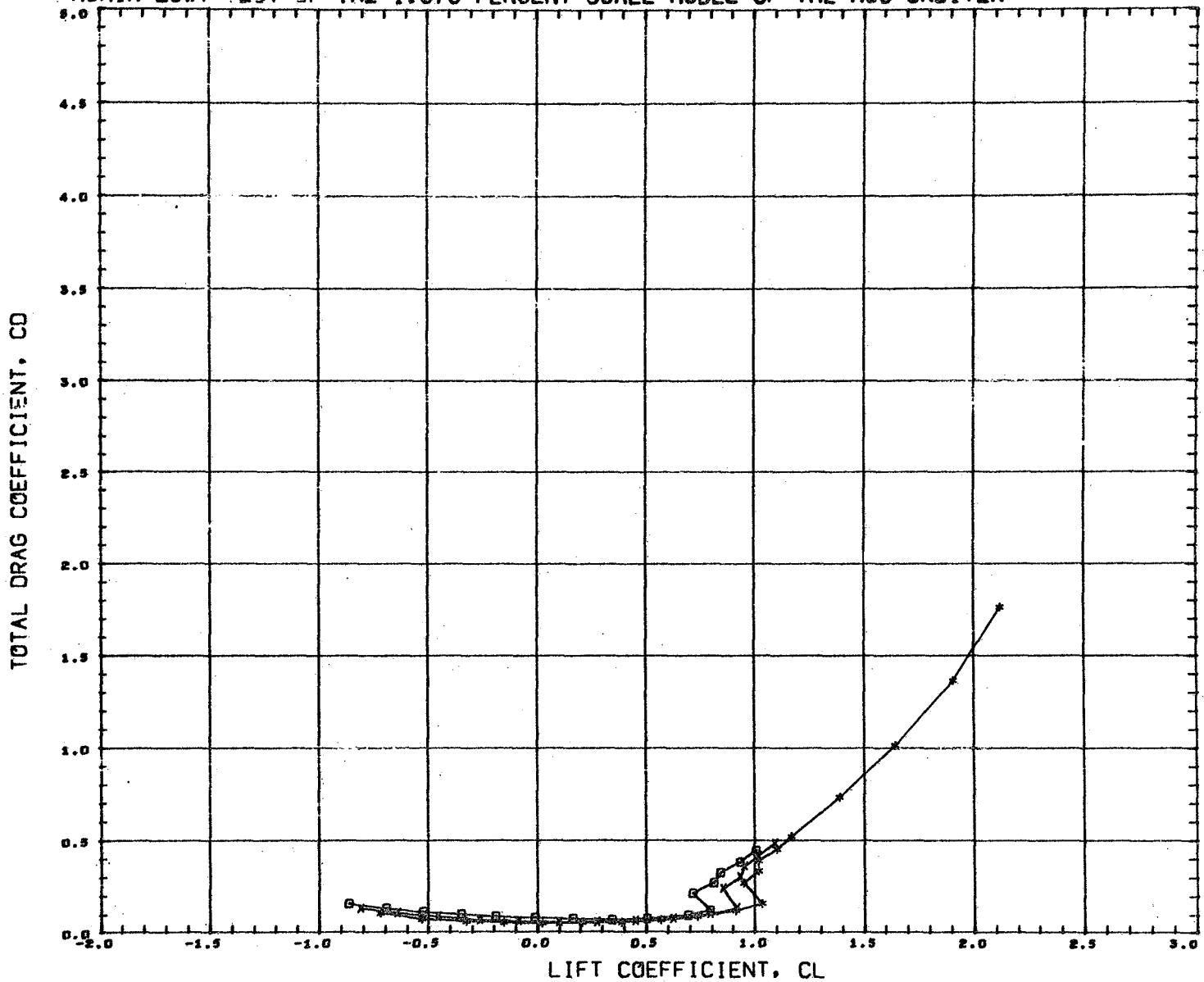
SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
G	LSWT 223 1.875 PC MOD S5 ORB. B2H6V3W1 (FWD)

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1F00)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ 36.FT.
(BC1F02)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
(BC1F03)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
			XMRP 1.36370X10 ⁺⁰¹ IN.
			YMRP 0.00000X10 ⁺⁰⁰ IN.
			ZMRP 2.40000X10 ⁺⁰² IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

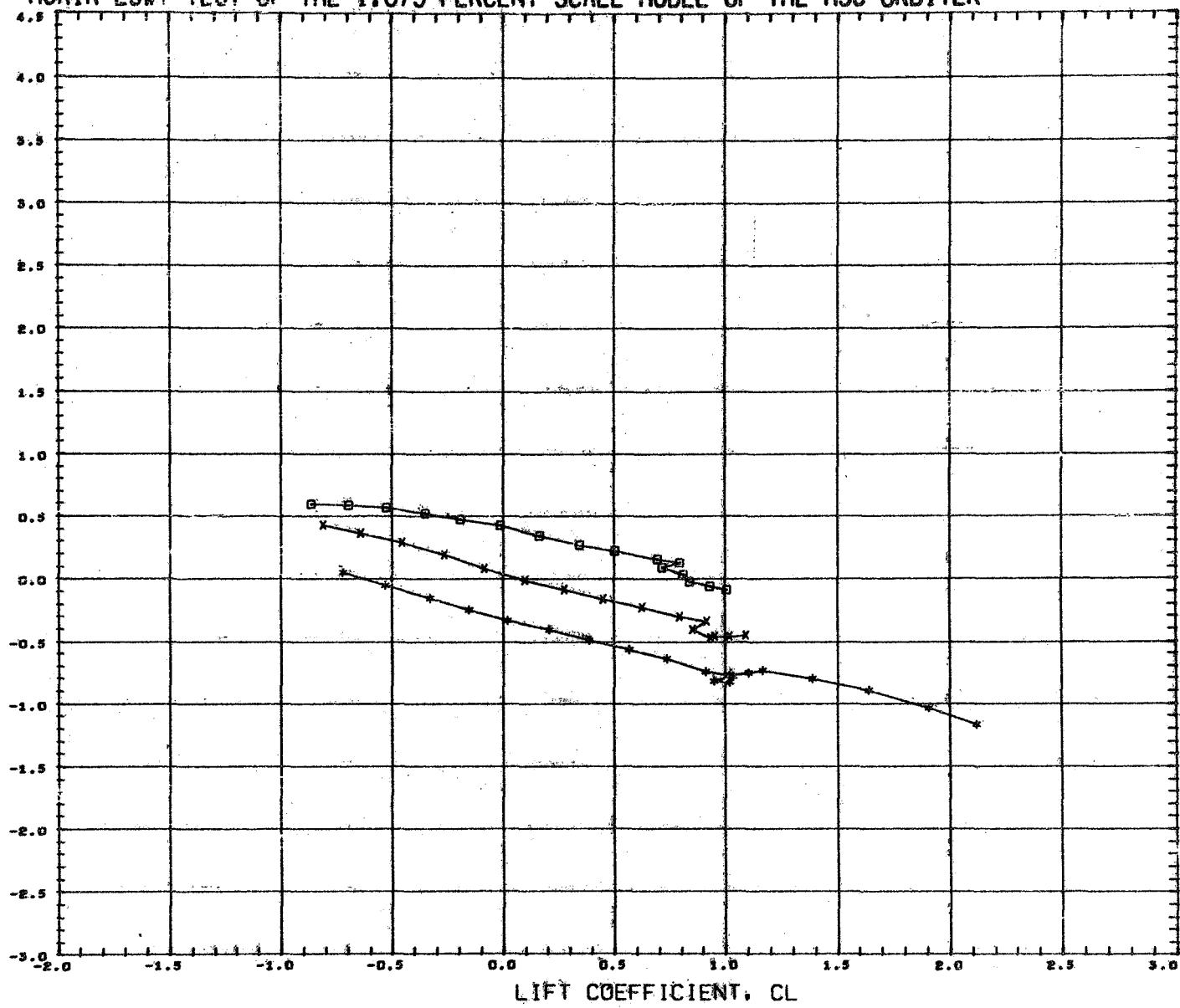


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A02)	28 JUL 70	0.250	REFS 3.20000X10 ⁻⁰¹ SQ.FT.
x	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A01)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
o	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A00)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.
					XNRP 1.38370X10 ⁺⁰¹ IN.
					YMRP 0.00000X10 ⁺⁰⁰ IN.
					ZMRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CNM



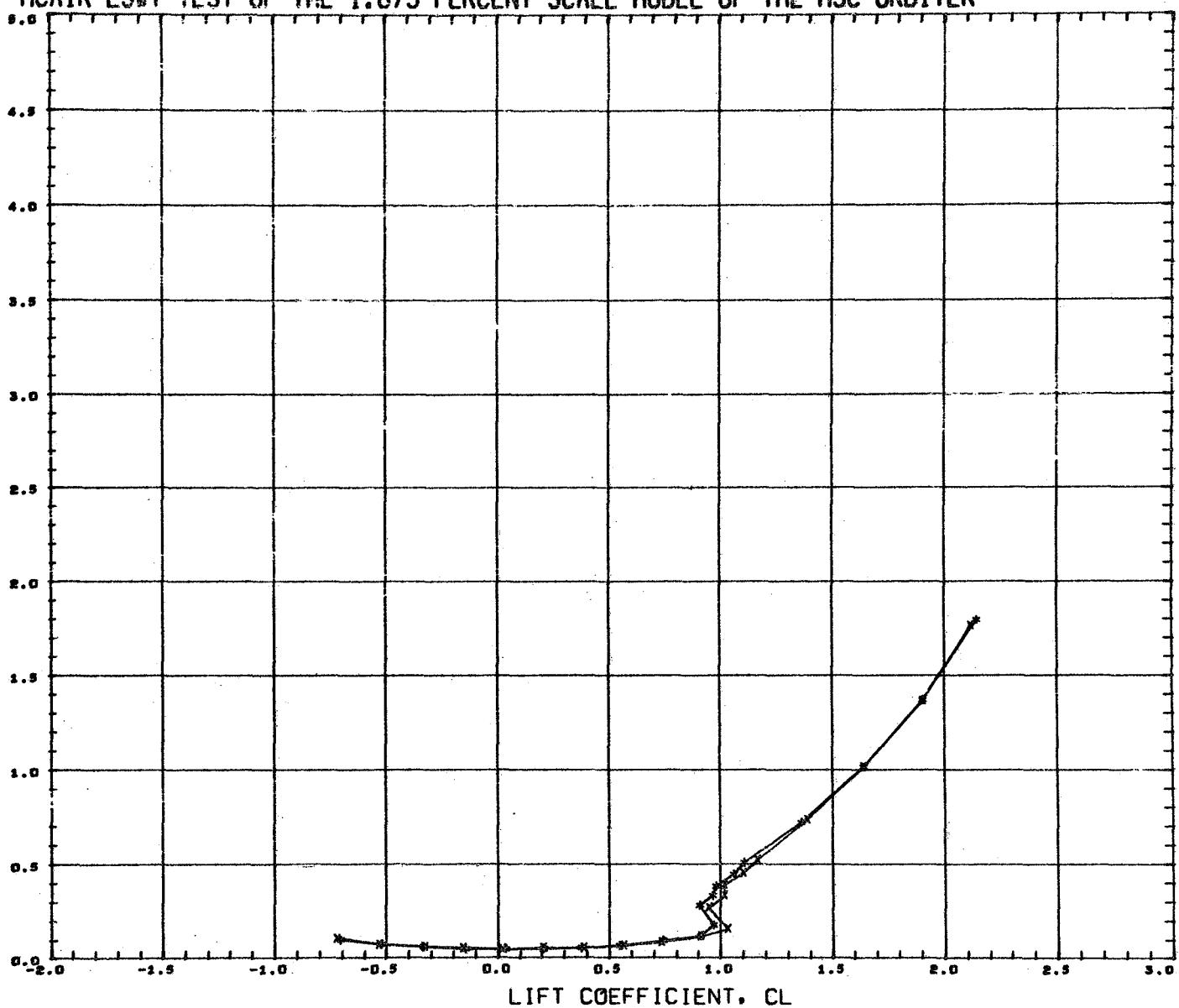
SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD SS ORB B1H6V3W1 (AFT)	(BC1AD2)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ 86. FT.
X	LSWT 223 1.875 PC MOD SS ORB B1H6V3W1 (AFT)	(BC1AD1)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD SS ORB B1H6V3W1 (AFT)	(BC1AD0)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.

REFERENCE FILE SDY 37100150

SCALE 1.87500X10⁻⁰² IN.

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

TOTAL DRAG COEFFICIENT, CD



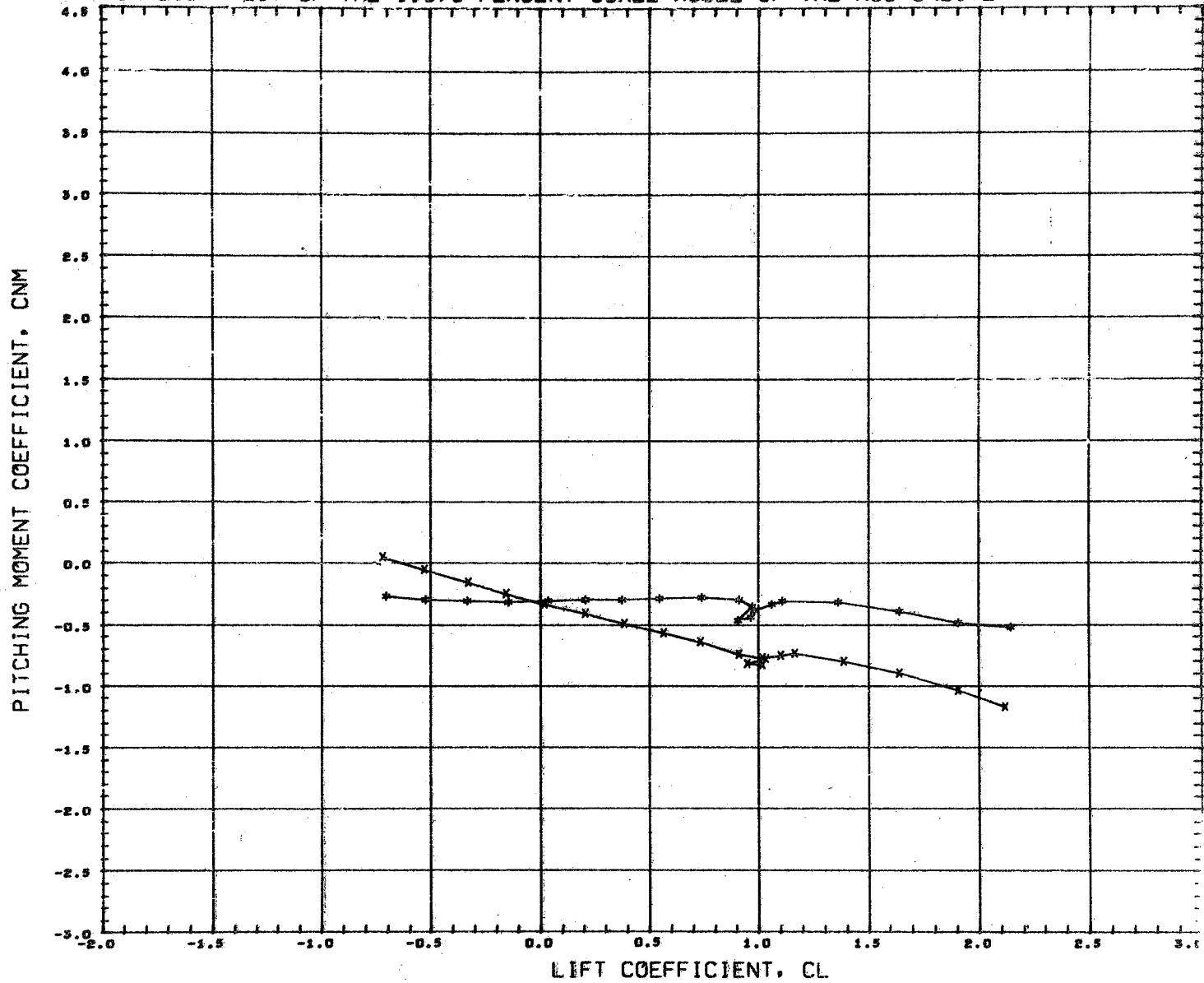
SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 X LSWT 223 1.875 PC MOD S5 ORB B1H6V3W3 (AFT)

DATA SET DATE MACH
 (BC1F10) 28 JUL 70 0.250
 (BC1A02) 28 JUL 70

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SG.FT.
 REFL 2.31700X10⁺⁰⁰ FT.
 REFB 1.50000X10⁺⁰¹ FT.
 XMRP 1.38370X10⁺⁰⁰ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

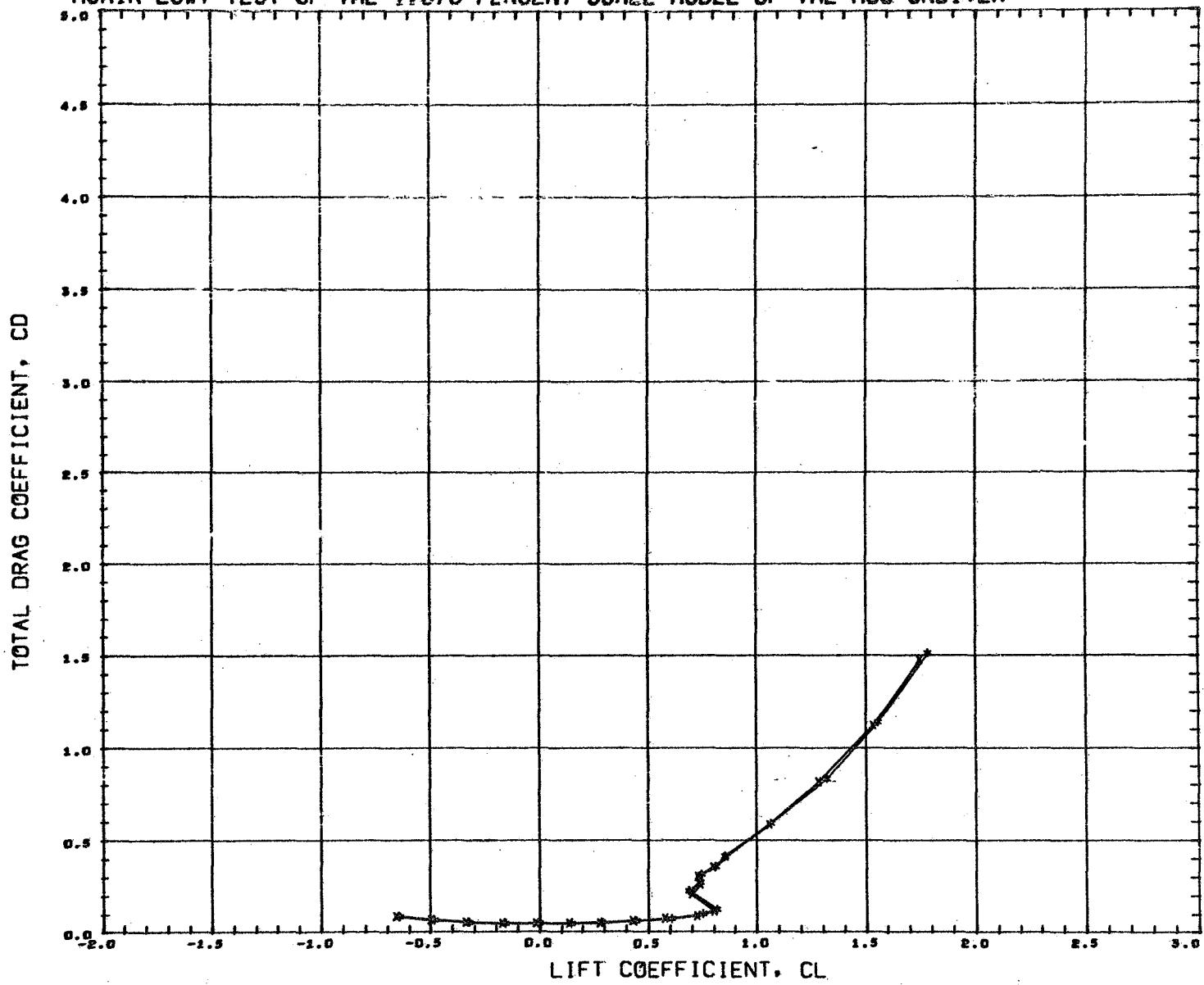
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD SS ORB. B1H6V3W1 (FWD)	(BC1F10)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
x	LSWT 223 1.875 PC MOD SS ORB B1H6V3W1 (AFT)	(BC1A02)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
					REFB 1.50000X10 ⁺⁰¹ FT.
					XHRP 1.38370X10 ⁺⁰⁰ IN.
					YHRP 0.00000X10 ⁺⁰⁰ IN.
					ZHRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

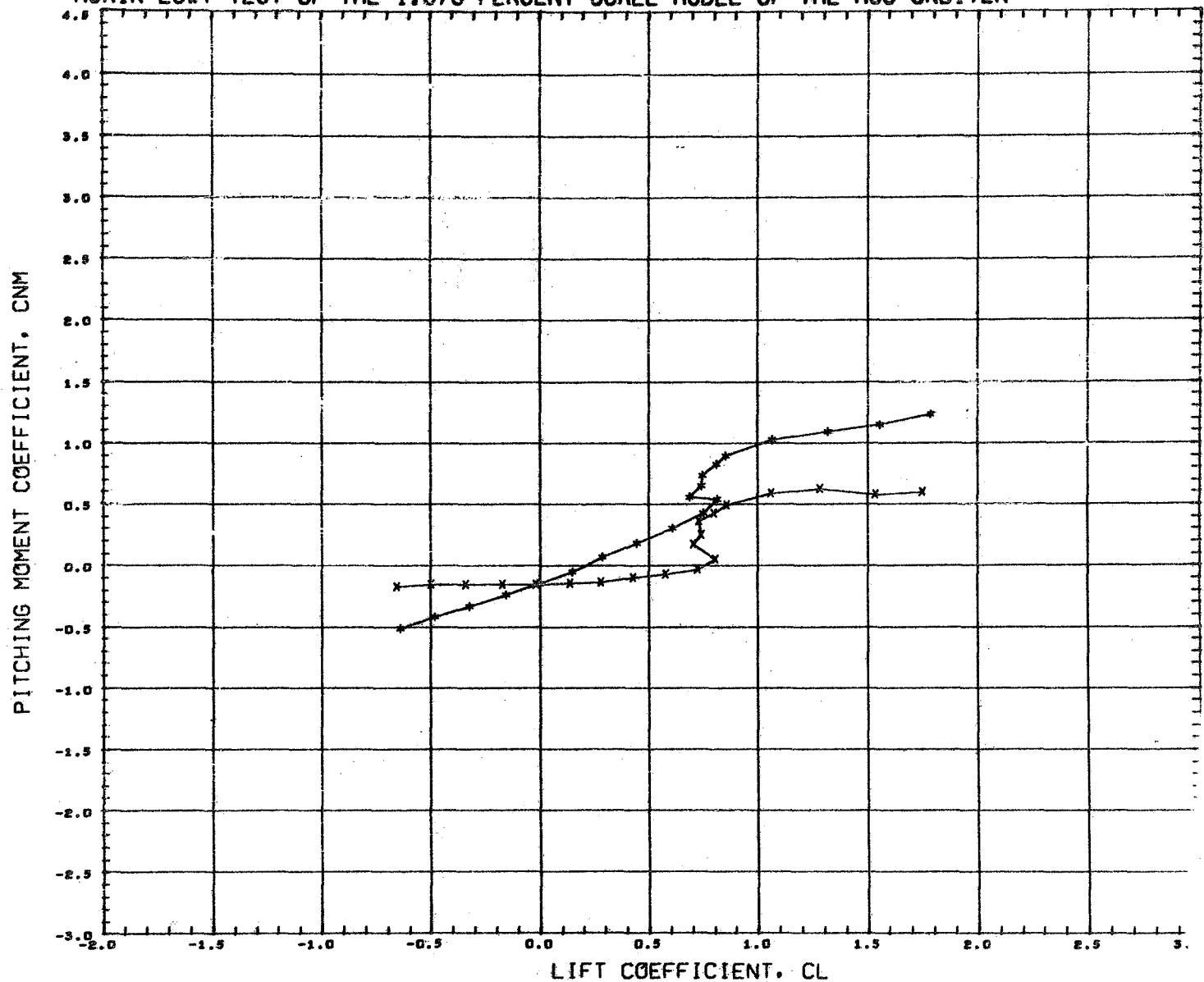


SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD 85 ORB B1V3W1
 X LSWT 223 1.875 PC MOD 85 ORB B1V3W1

DATA SET DATE MACH REFERENCE INFORMATION
 (BC1041) 28 JUL 70 0.250 REFS 3.20800X10⁻⁰² SQ.FT.
 (BC1040) 28 JUL 70 0.250 REFL 2.31700X10⁺⁰⁰ FT.
 REFS 1.50000X10⁺⁰⁰ FT.
 XMRP 1.38370X10⁺⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁺⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

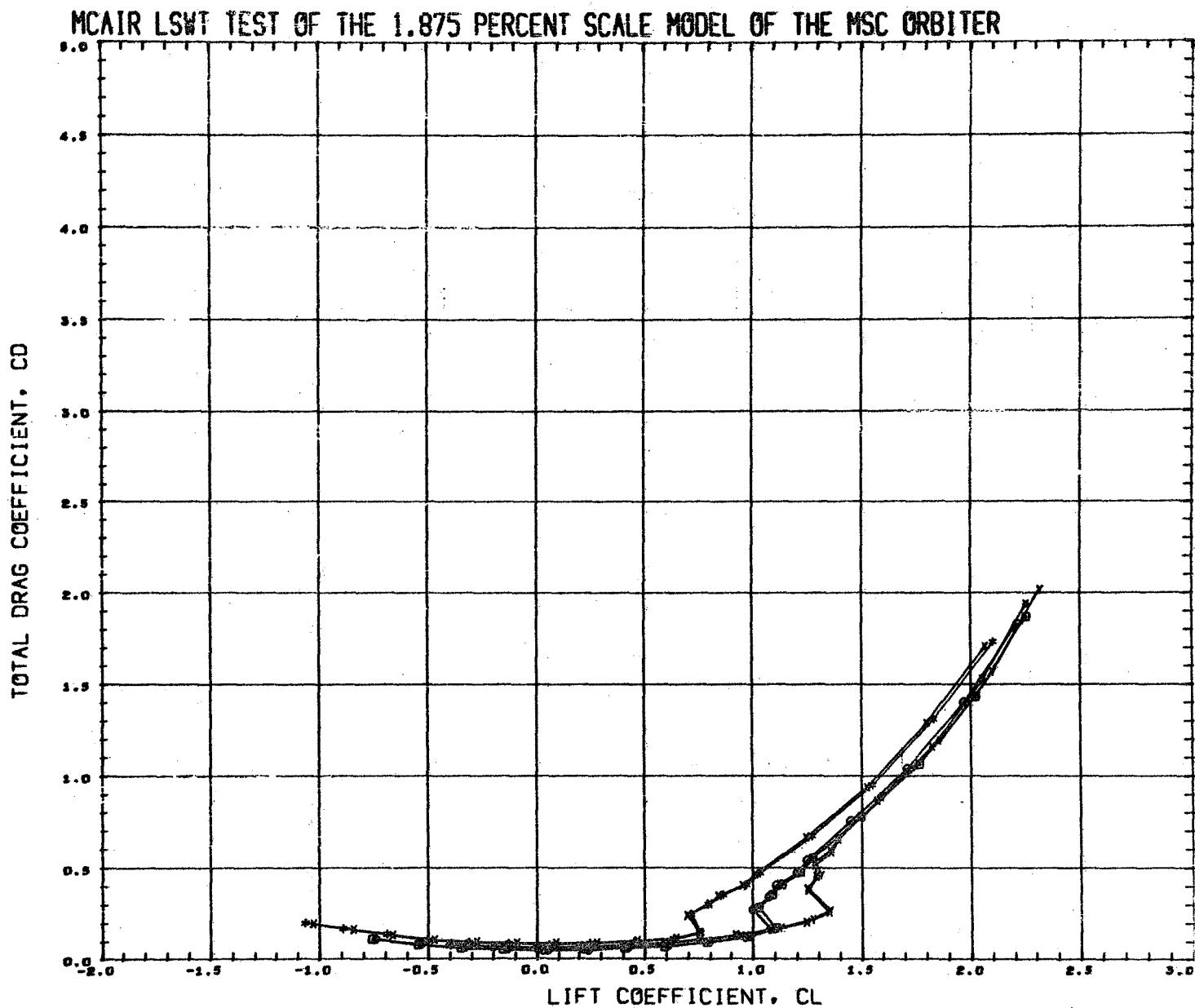


SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD 95 ORB B1V3W1
 X LSWT 223 1.875 PC MOD 95 ORB B1V3W1

DATA SET DATE
 (BC1041) 28 JUL 70
 (BC1040) 28 JUL 70

MACH REFERENCE INFORMATION
 0.250 REFS 3.20800X10⁻⁰¹ SQ.FT
 REFL 2.31700X10⁺⁰¹ FT.
 REFB 1.50000X10⁺⁰¹ FT.
 XMRP 1.38370X10⁺⁰⁰ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁺⁰⁰ IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150.

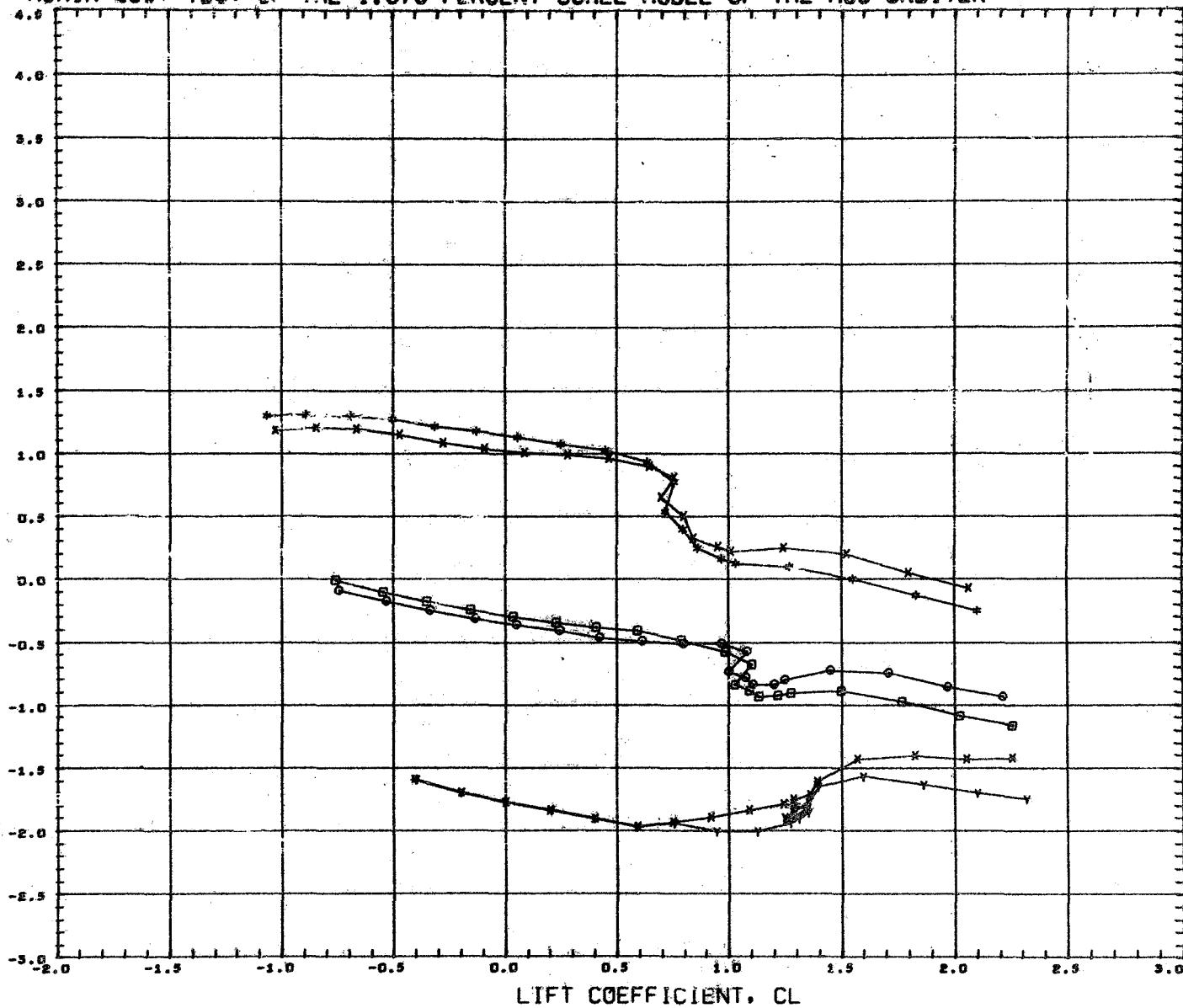


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD 55 CRB. B1H013V3W1	(BC1G06)	28 JUL 70	0.250	REFS 3.20800×10^{-01} SQ.FT.
X	LSWT 223 1.875 PC MOD 55 ORB. B1H1513V3W1	(BC1H11)	28 JUL 70		REFL $2.31700 \times 10^{+00}$ FT.
G	LSWT 223 1.875 PC MOD 55 ORB. B1H013V3W1	(BC1G05)	28 JUL 70		REFB $1.50000 \times 10^{+00}$ FT.
O	LSWT 223 1.875 PC MOD 55 ORB. B1H1513V3W1	(BC1H09)	28 JUL 70		XHRP $1.38370 \times 10^{+01}$ IN.
Y	LSWT 223 1.875 PC MOD 55 CRB. B1H013V3W1	(BC1G04)	28 JUL 70		YHRP $0.00000 \times 10^{+00}$ IN.
W	LSWT 223 1.875 PC MOD 55 ORB. B1H1513V3W1	(BC1H08)	28 JUL 70		ZHRP 2.40000×10^{-02} IN.
					SCALE $1.87500 \times 10^{+00}$ SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CNM



SYMBOL CONFIGURATION DESCRIPTION

* LSWT 223 1.875 PC MOD 55 ORB. B1H013V3W1
 X LSWT 223 1.875 PC MOD 55 ORB. B1H1513V3W1
 G LSWT 223 1.875 PC MOD 55 ORB. B1H013V3W1
 O LSWT 223 1.875 PC MOD 55 ORB. B1H1513V3W1
 Y LSWT 223 1.875 PC MOD 55 ORB. B1H013V3W1
 H LSWT 223 1.875 PC MOD 55 ORB. B1H1513V3W1

REFERENCE FILE

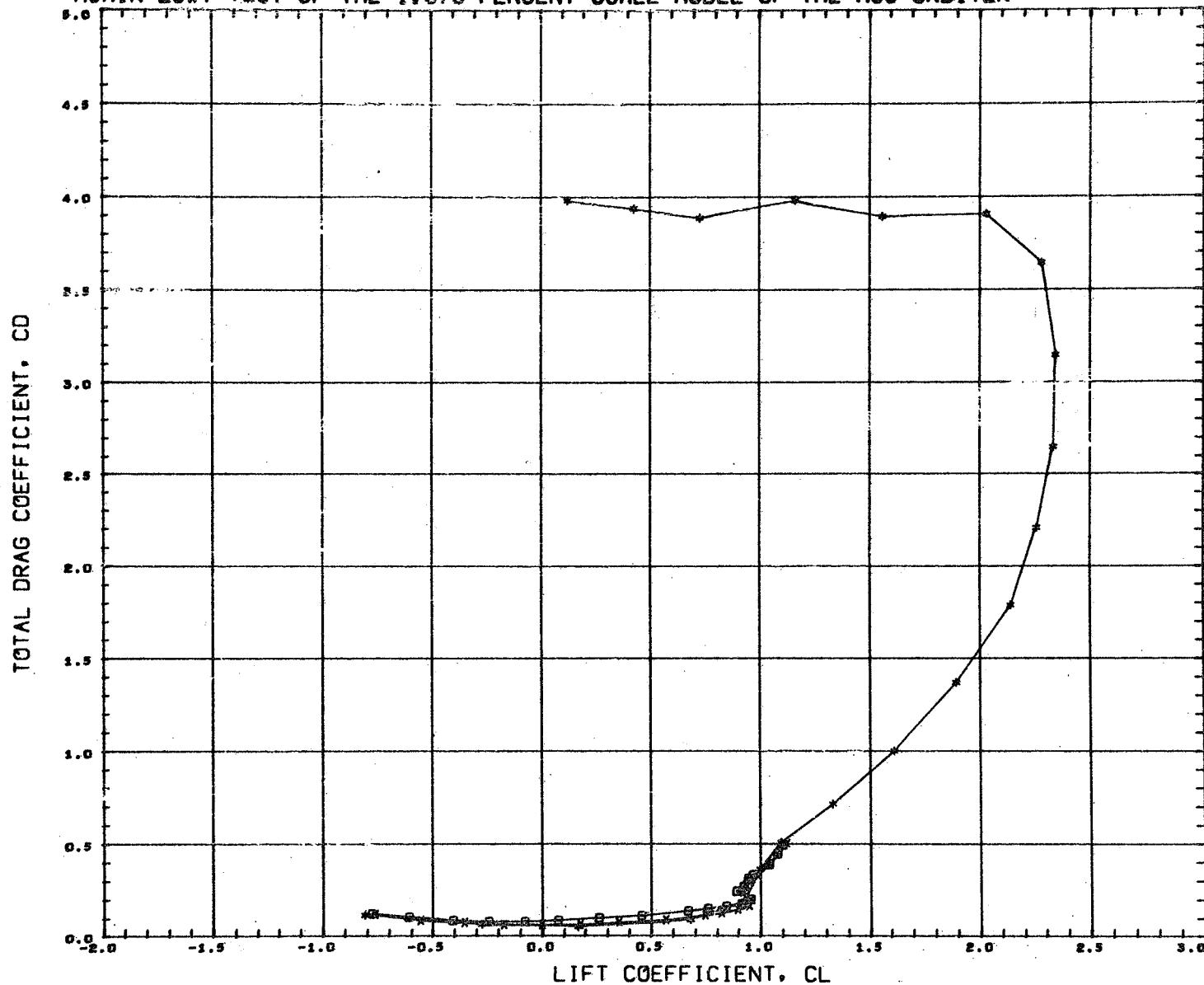
SDY 37100150

DATA SET DATE MACH

(BC1G06) 28 JUL 70 0.250
 (BC1H11) 28 JUL 70
 (BC1G05) 28 JUL 70
 (BC1H09) 28 JUL 70
 (BC1G04) 28 JUL 70
 (BC1H08) 28 JUL 70

REF5 3.20800X10⁻⁰¹ SG.FT.
 REF6 2.31700X10⁺⁰⁰ FT.
 REF8 1.90000X10⁺⁰¹ FT.
 XMRP 1.58370X10⁺⁰⁰ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

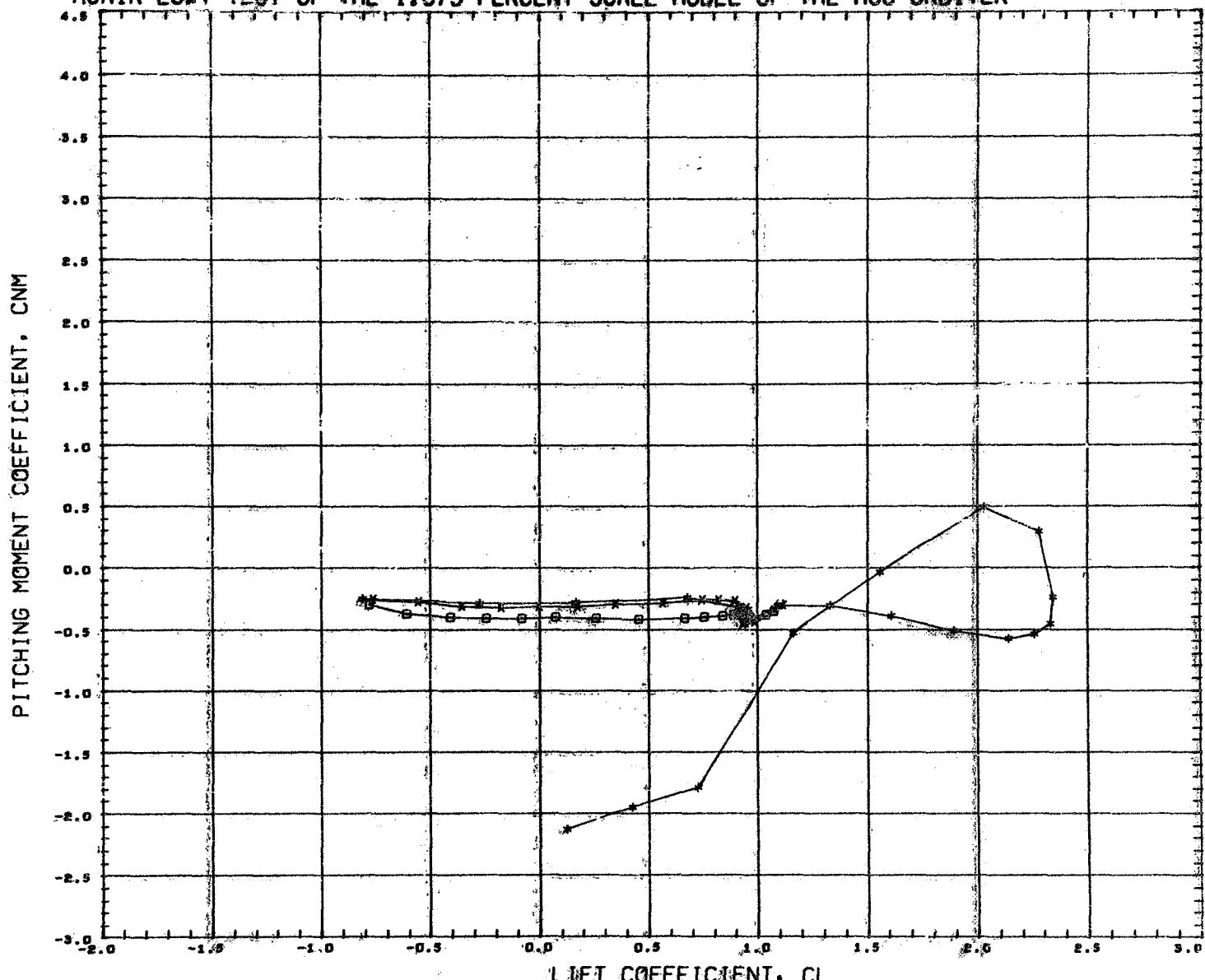


SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 x LSWT 223 1.875 PC MOD S5 ORB. B1H6S2V3W1
 o LSWT 223 1.875 PC MOD S5 ORB. B1H6S3V3W1

DATA SET DATE MACH REFERENCE INFORMATION
 (BC1F17) 28 JUL 70 0.170 REFS 3.20800X10⁻⁰¹ SQ.FT.
 (BC1083) 28 JUL 70 0.170 REFL 2.31700X10⁺⁰⁰ FT.
 (BC1084) 28 JUL 70 0.170 REFB 1.50000X10⁺⁰¹ FT.
 XHRF 1.38370X10⁺⁰¹ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZMRF 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



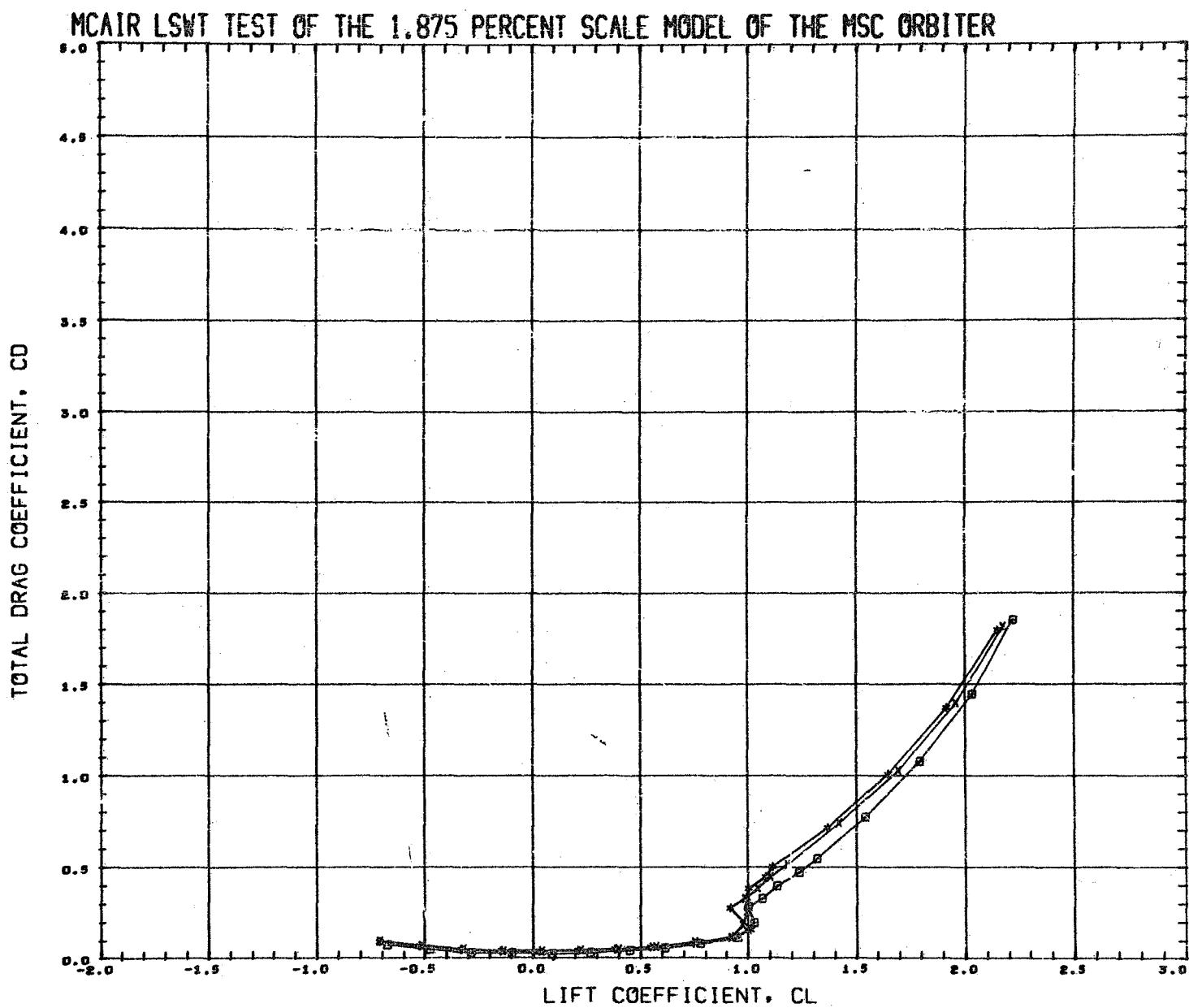
SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT #223 1.875 PC MOD SS ORB. B1H6V3W1 (FWD)
x	LSWT #223 1.875 PC MOD SS ORB. B1H6S2V3W1
■	LSWT #223 1.875 PC MOD SS ORB. B1H6S3V3W1

LIFT COEFFICIENT, CL

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1F17)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰¹ SA.FT.
(BC1083)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(BC1084)	28 JUL 70		REFD 1.30000X10 ⁺⁰¹ FT.
			MRP 1.38370X10 ⁺⁰¹ IN.
			MRP 0.00000X10 ⁺⁰⁰ IN.
			MRP 2.40000X10 ⁻⁰² IN.
			SCALE 1.07500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

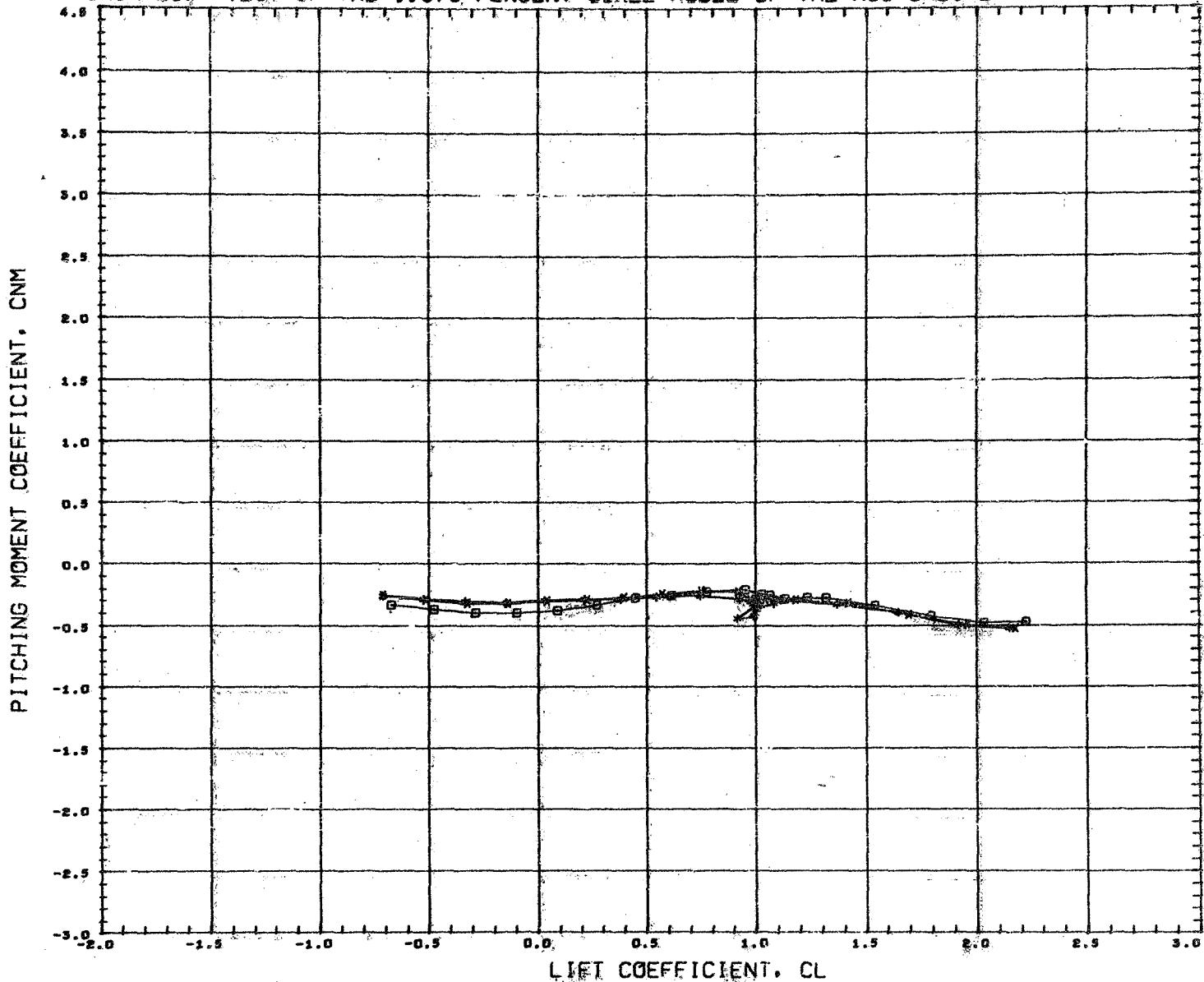


SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD 55 ORB. B1H6W1
 X LSWT 223 1.875 PC MOD 55 ORB. B1H6W1
 C LSWT 223 1.875 PC MOD 55 ORB. B1H6W1

DATA SET DATE MACH REFERENCE INFORMATION
 (BC1050) 28 JUL 70 0.250 REFS 3.20800X10⁻⁰¹ SQ.FT.
 (BC1053) 28 JUL 70 0.250 REFL 2.31700X10⁺⁰⁰ FT.
 (BC1054) 28 JUL 70 0.250 REFB 1.50000X10⁺⁰¹ FT.
 XHRP 1.38370X10⁻⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZHRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

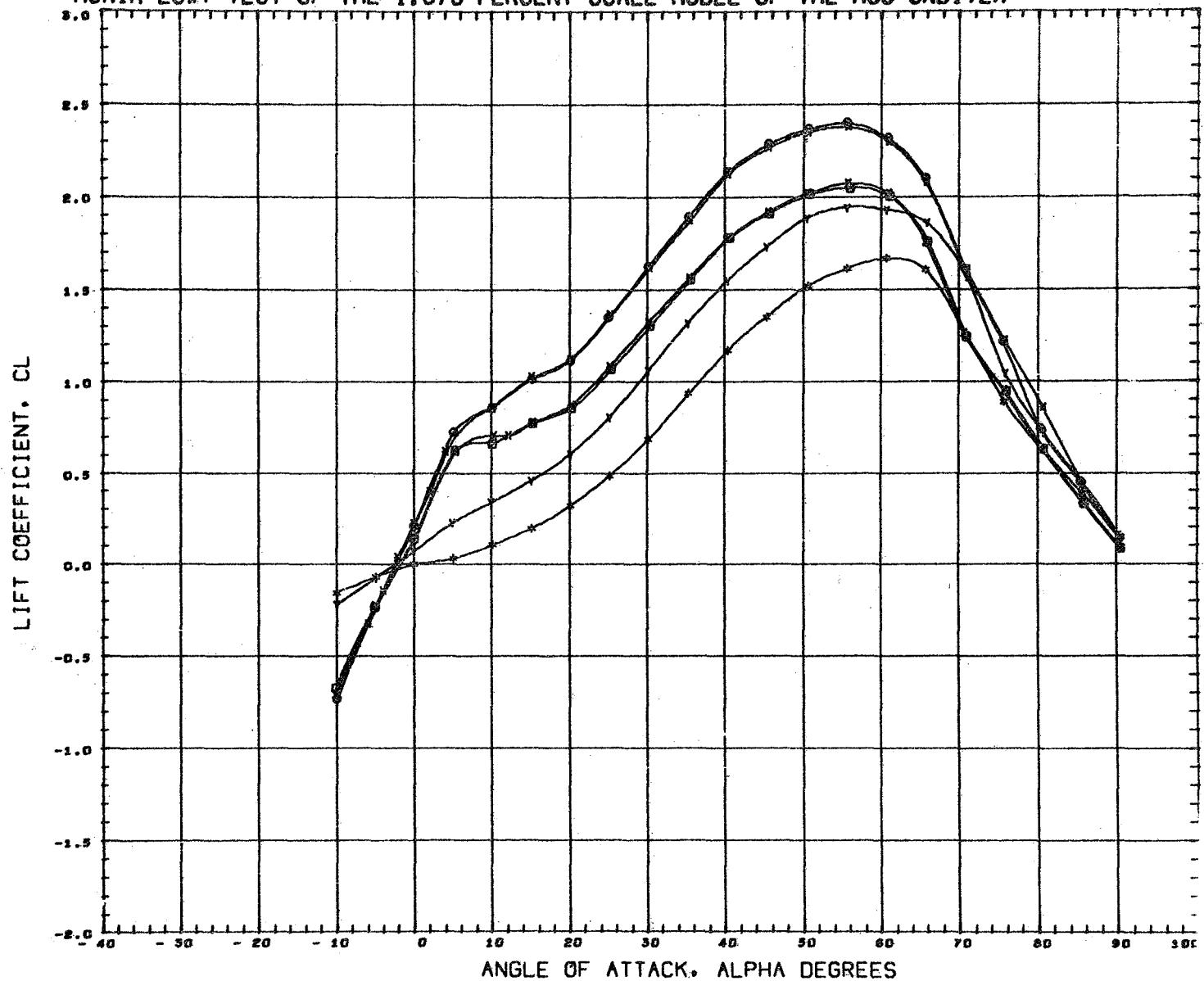
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1	(BC1050)	26 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 CRB. B1H6W1	(BC1053)	26 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1	(BC1054)	26 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
				XMRP 1.38370X10 ⁻⁰¹ IN.	
				YMRP 0.00000X10 ⁺⁰⁰ IN.	
				ZMRP 2.40000X10 ⁻⁰² IN.	
				SCALE 1.87500X10 ⁻⁰² SCALE	

REFERENCE FILE SDY 37100150

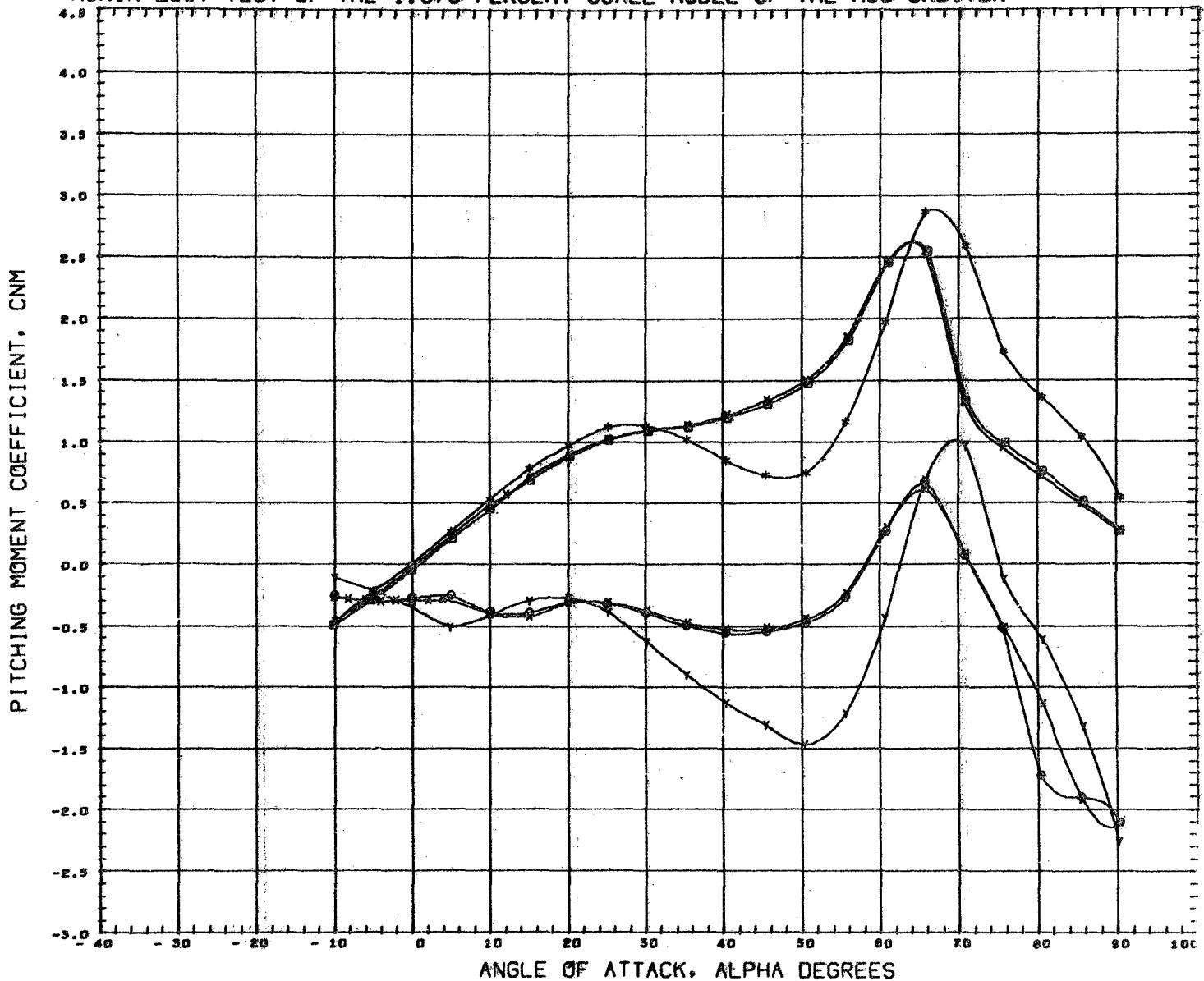
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1	(BC1000)	28 JUL 70	0.170	REFS 3.20000X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1	(BC1011)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
G	LSWT 223 1.875 PC MOD S5 ORB B1V3W1	(BC1042)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.
O	LSWT 223 1.875 PC MOD S5 QRB. B1HW1	(BC1051)	28 JUL 70		XMRP 1.38370X10 ⁺⁰¹ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3	(BC1030)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F08)	28 JUL 70		ZMRP 2.40000X10 ⁺⁰⁰ IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100190

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

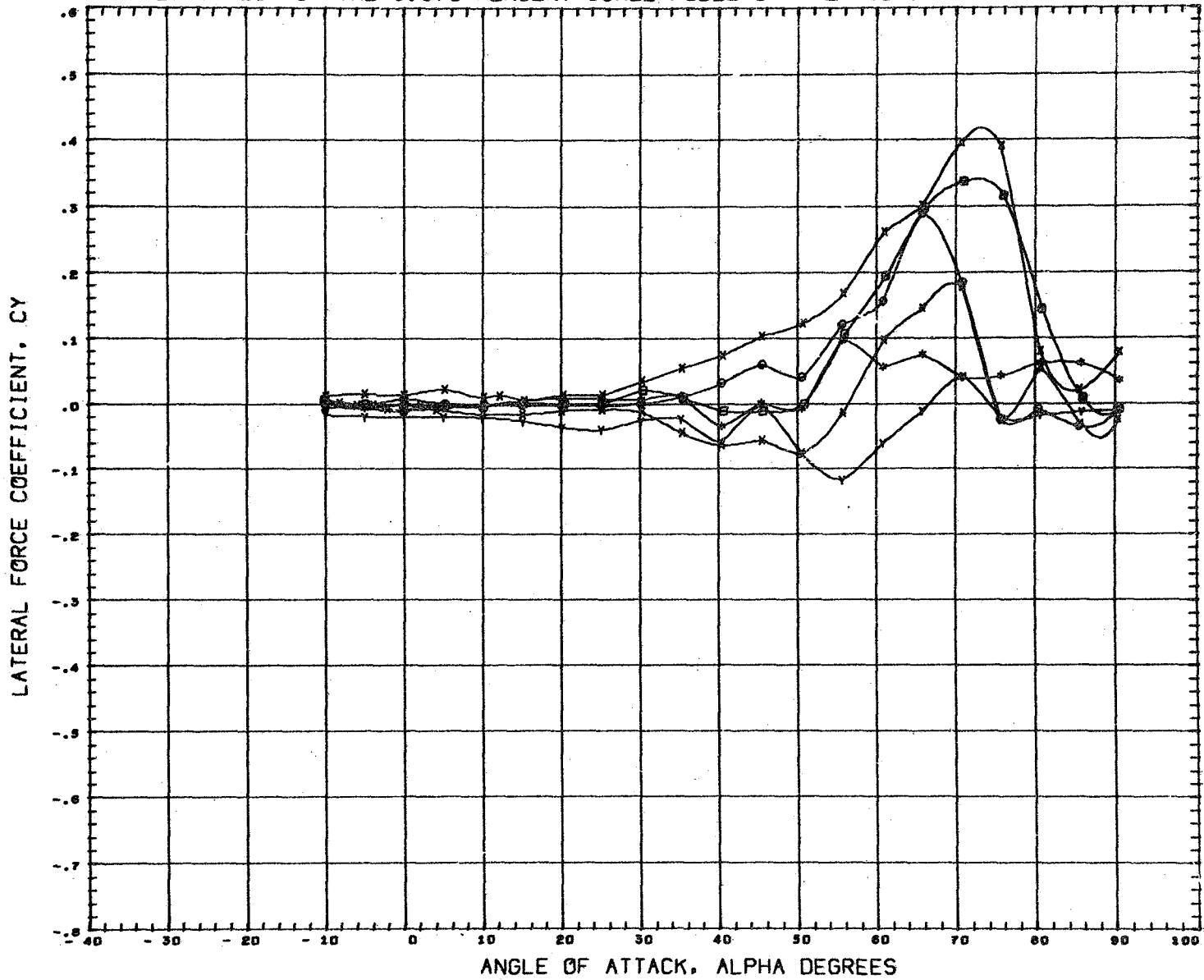


SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD 55 ORB. B1
X	LSWT 223 1.875 PC MOD 55 ORB. B1W1
G	LSWT 223 1.875 PC MOD 55 ORB. B1V3W1
G	LSWT 223 1.875 PC MOD 55 ORB. B1H6W1
Y	LSWT 223 1.875 PC MOD 55 ORB. B1H6V3
X	LSWT 223 1.875 PC MOD 55 ORB. B1H6V3W1 (FWD)

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1000)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰¹ IN. FT.
(BC1011)	28 JUL 70	REFL 2.31700X10 ⁻⁰¹ FT.	
(BC1042)	28 JUL 70	REFB 1.50000X10 ⁺⁰¹ FT.	
(BC1051)	28 JUL 70	XMRP 1.38370X10 ⁺⁰¹ IN.	
(BC1050)	28 JUL 70	YMRP 0.00000X10 ⁺⁰⁰ IN.	
(BC1F08)	28 JUL 70	ZMRP 2.40000X10 ⁻⁰² IN.	
		SCALE 1.87500X10 ⁻⁰²	

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



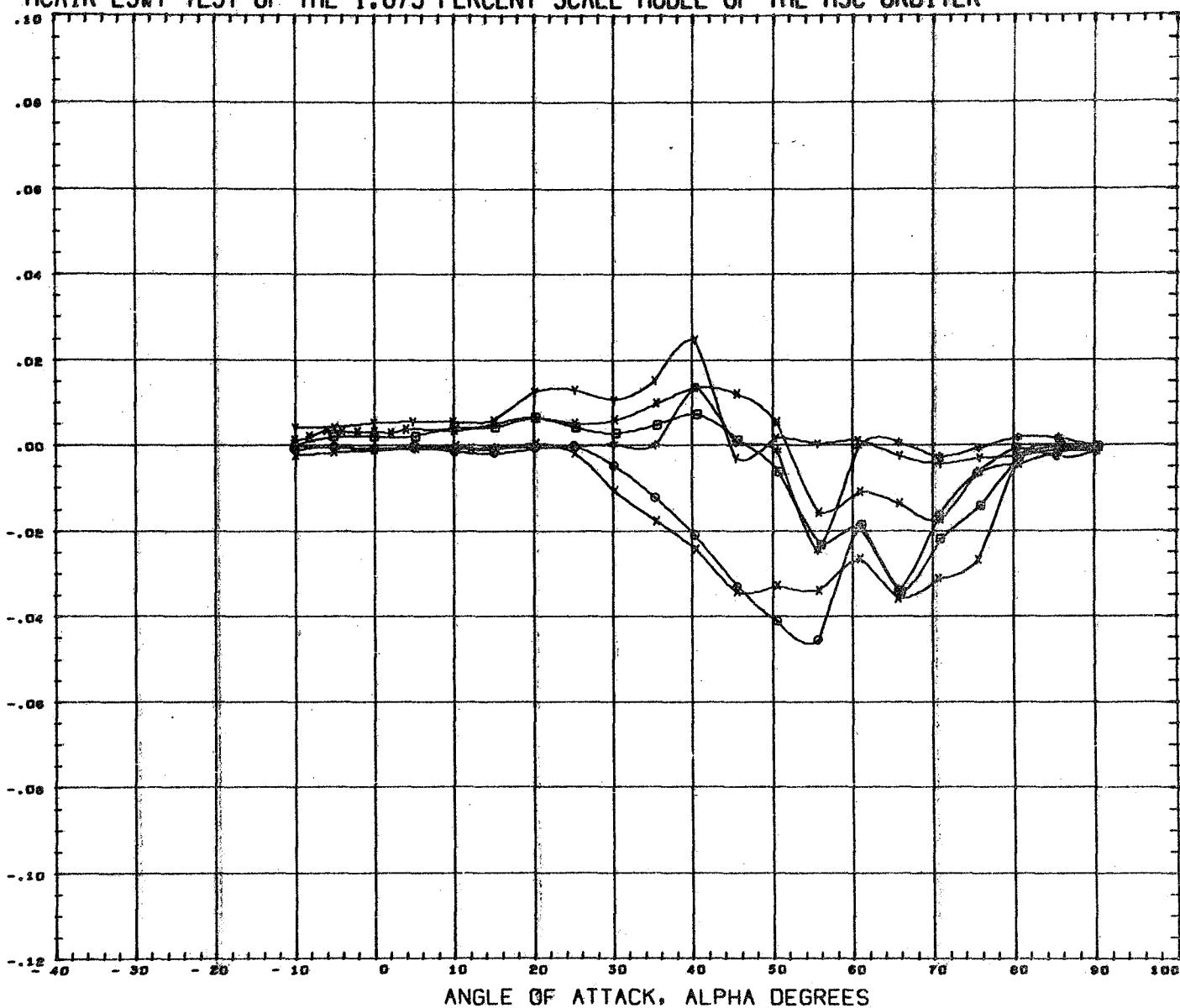
SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1	(BC1000)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1	(BC1011)	28 JUL 70		REFL 8.31700X10 ⁻⁰¹ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1V3W1	(BC1042)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.
O	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1	(BC1051)	28 JUL 70		XMRP 1.38370X10 ⁺⁰¹ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3	(BC1030)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F08)	28 JUL 70		ZMRP 2.40000X10 ⁺⁰⁰ IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 57100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, CWN



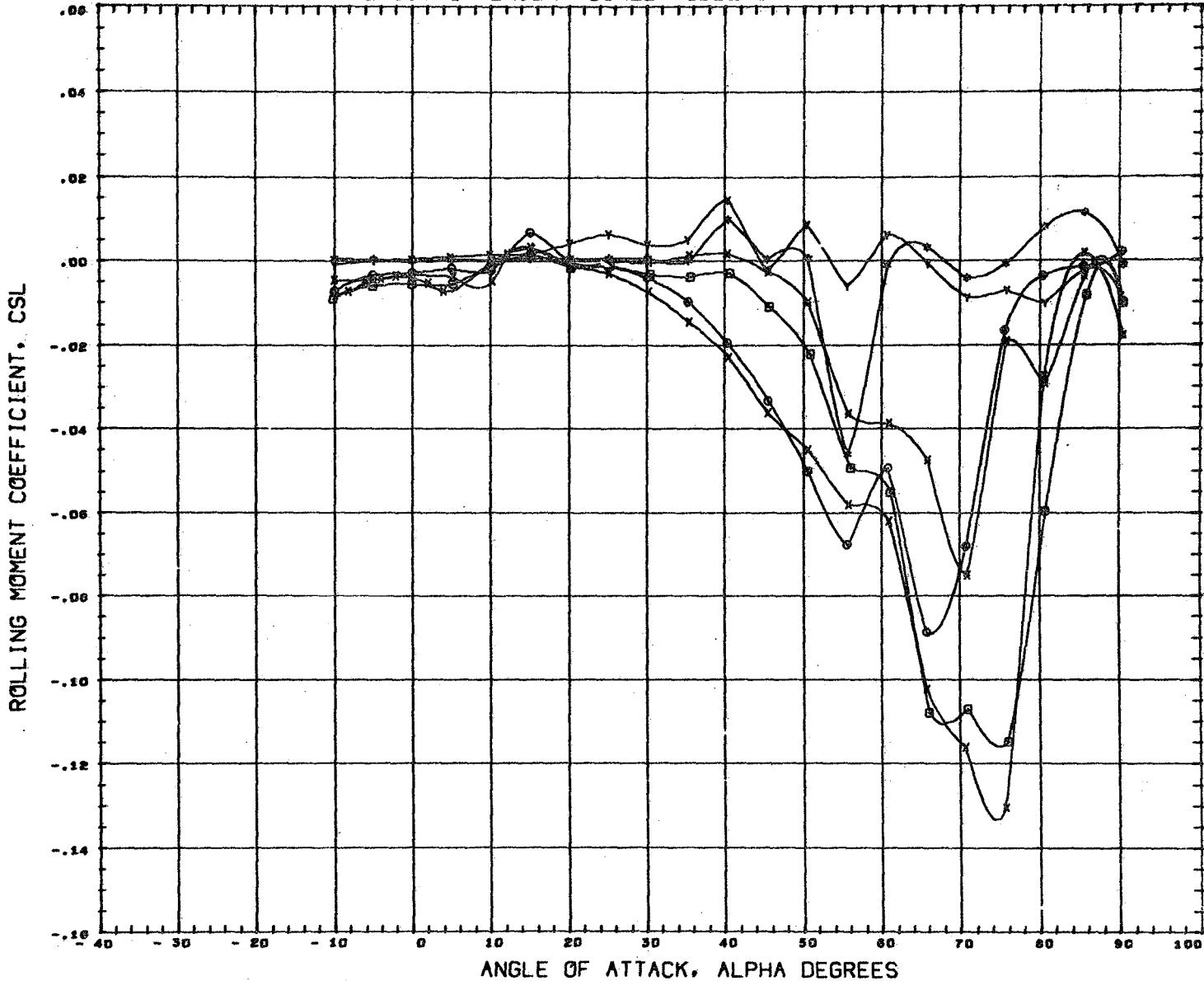
SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1V3WL
O	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V5
X	LSWT 223 1.875 FC MOD S5 ORB. B1H6V3W1 (FWD)

REFERENCE FILE SDY 37100150

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1000)	28 JUL 70	0.170	REFS 3.20000X10 ⁻⁰¹ SQ.FT.
(BC1011)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
(BC1042)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
(BC1051)	28 JUL 70		XMRP 1.38370X10 ⁺⁰⁰ IN.
(BC1030)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
(BC1F08)	28 JUL 70		ZMRP 2.40000X10 ⁺⁰⁰ IN.

SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



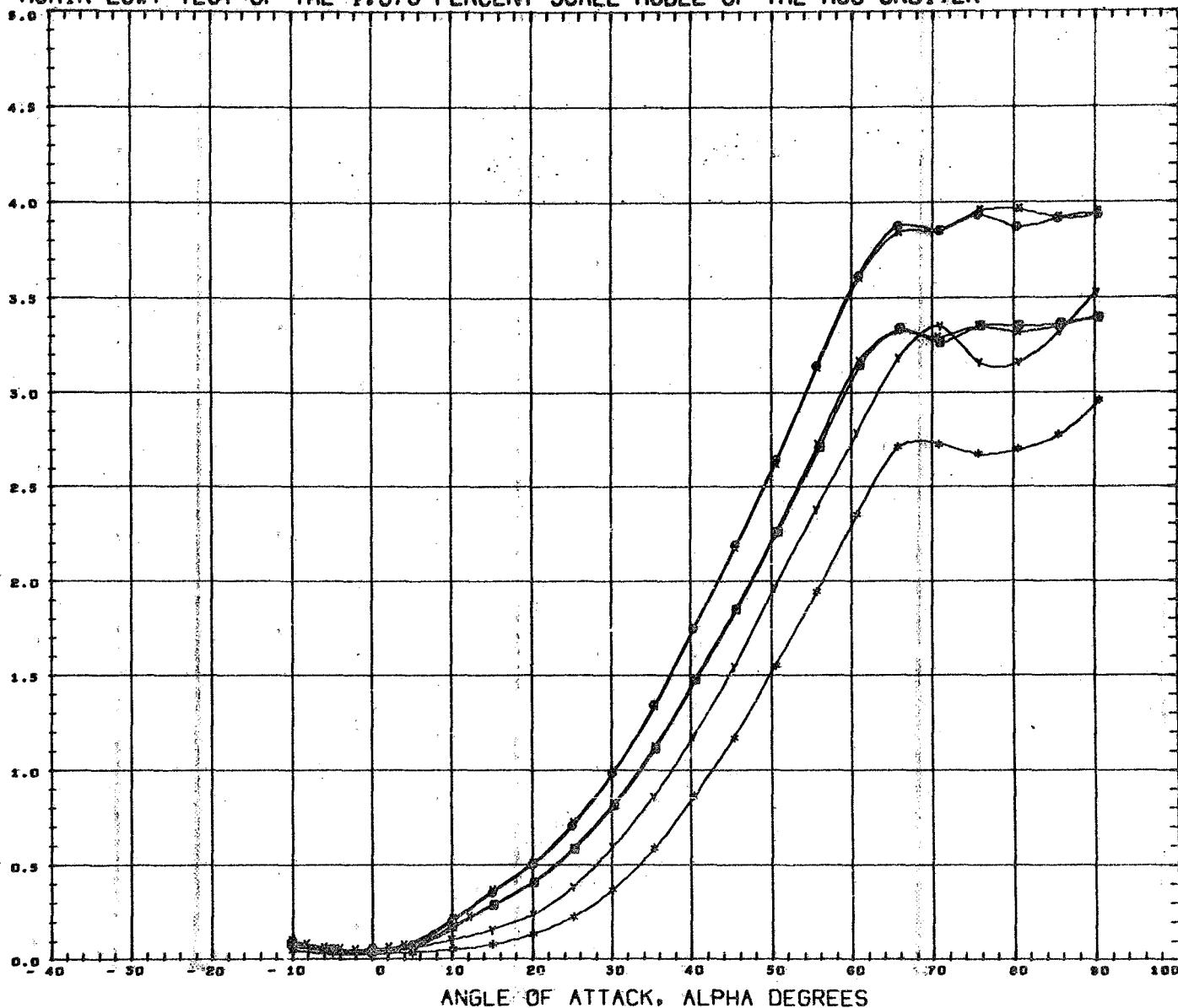
SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1V3W1
O	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3
K	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1000)	28 JUL 70	0.170	REFS 3.20000X10 ⁻⁰¹ SQ.FT.
(BC1011)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(BC1042)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
(BC1051)	28 JUL 70		XNRP 1.36370X10 ⁺⁰¹ IN.
(BC1050)	28 JUL 70		YNRP 0.00000X10 ⁺⁰⁰ IN.
(BC1F08)	28 JUL 70		ZNRP 2.40000X10 ⁺⁰⁰ IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

TOTAL DRAG COEFFICIENT, CD

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



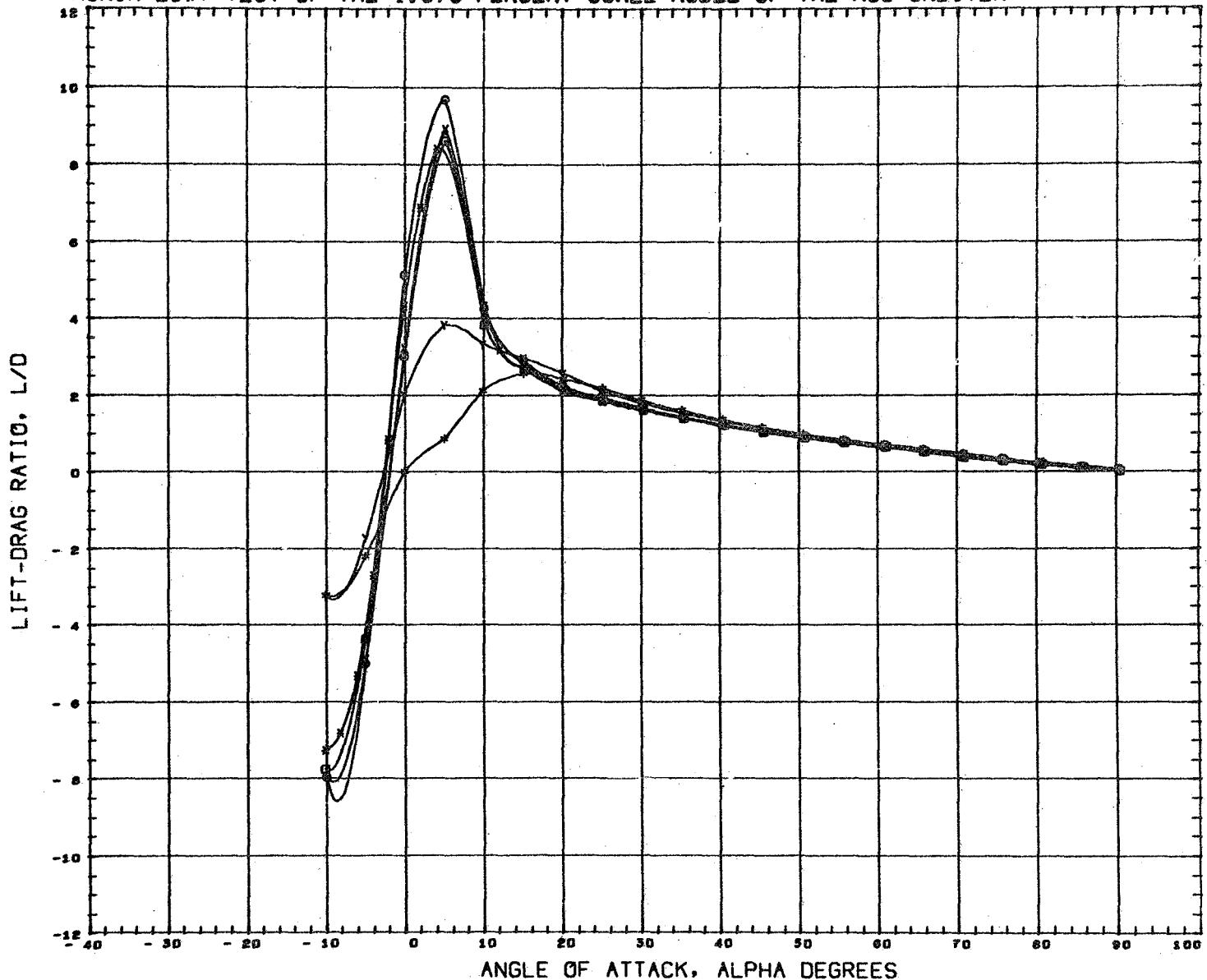
SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1V3W1
O	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)

REFERENCE FILE

SDY 37100150

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1000)	28 JUL 70	0.170	REFS 3.20800×10^{-01} SQ.FT.
(BC1011)	28 JUL 70		REFL $2.31700 \times 10^{+00}$ FT.
(BC1042)	28 JUL 70		REFB $1.50000 \times 10^{+01}$ FT.
(BC1051)	28 JUL 70		XNRP $1.36370 \times 10^{+00}$ IN.
(BC1030)	28 JUL 70		YNRP $0.00000 \times 10^{+00}$ IN.
(BC1F08)	28 JUL 70		ZNRP 2.40000×10^{-02} IN.
			SCALE 1.87500×10^{-02} SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

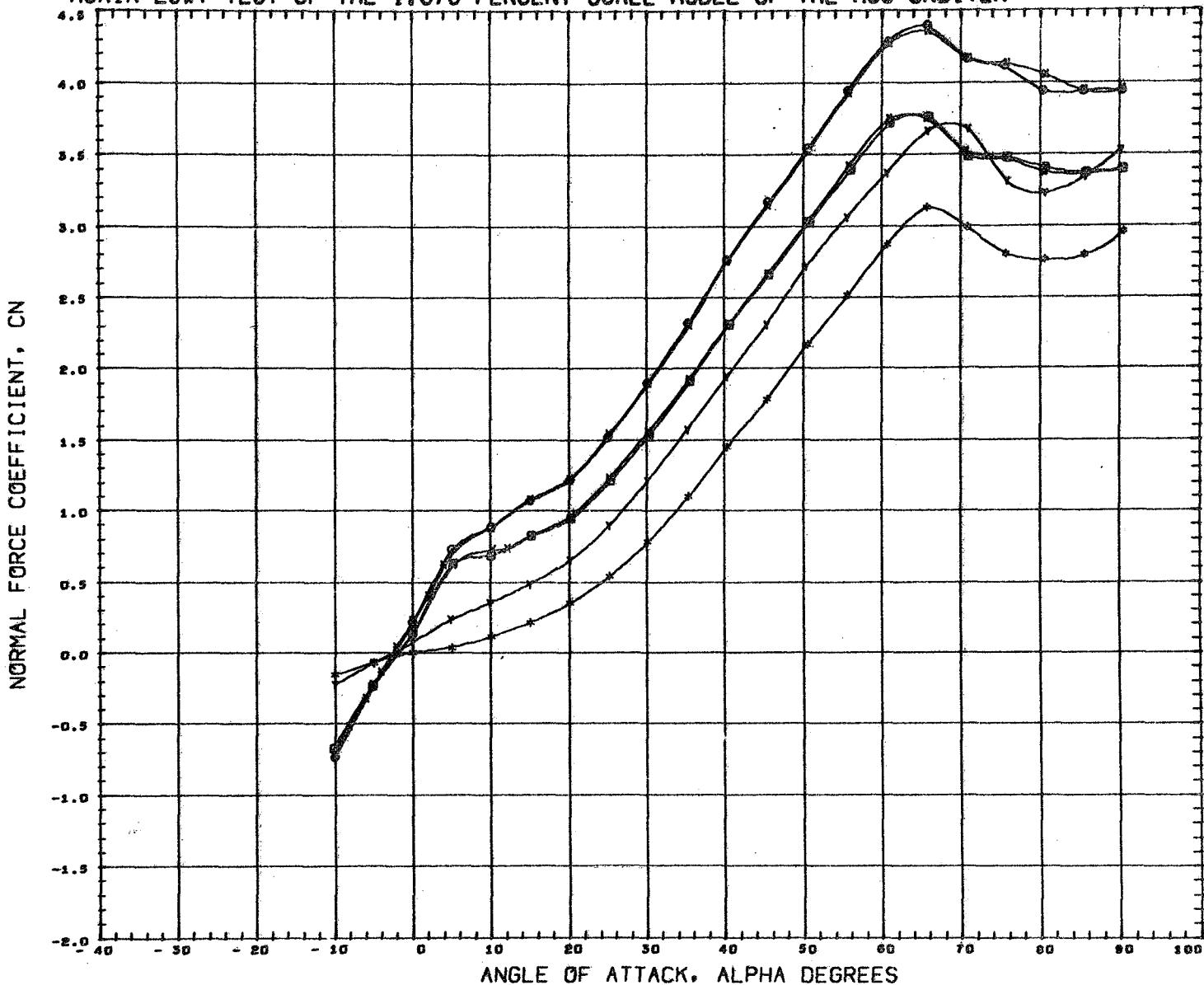


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1	(BC1000)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰² SG.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1	(BC1011)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
G	LSWT 223 1.875 PC MOD S5 ORB B1V3W1	(BC1042)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.
●	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1	(BC1051)	28 JUL 70		XNRP 1.38370X10 ⁺⁰¹ IN.
○	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3	(BC1030)	28 JUL 70		YNRP 0.00000X10 ⁺⁰⁰ IN.
+	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F08)	28 JUL 70		ZNRP 2.40000X10 ⁺⁰⁰ IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

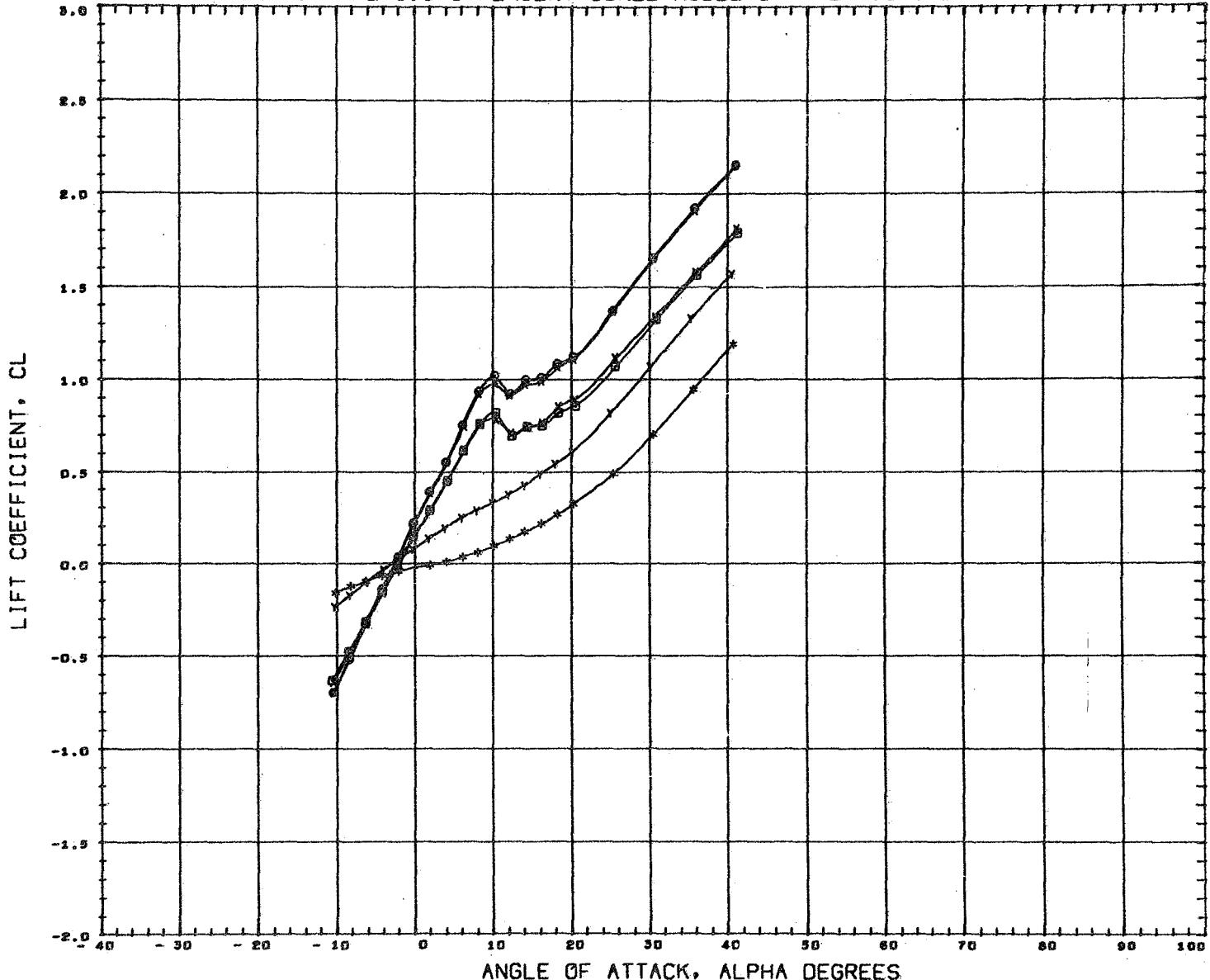


SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1
x	LSWT 223 1.875 PC MOD S5 ORB. B1W1
o	LSWT 223 1.875 PC MOD S5 ORB. B1V3W1
●	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3
■	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)

DATA SET	DATE	MACH	REFERENCE INFORMATION
(AC1000)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
(AC1011)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(AC1042)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
(AC1051)	28 JUL 70		XHFP 1.58370X10 ⁺⁰¹ IN.
(AC1030)	28 JUL 70		YHFP 0.00000X10 ⁺⁰⁰ IN.
(AC1F08)	28 JUL 70		ZHFP 2.40000X10 ⁻⁰² IN.

REFERENCE FILE SDY 37100150

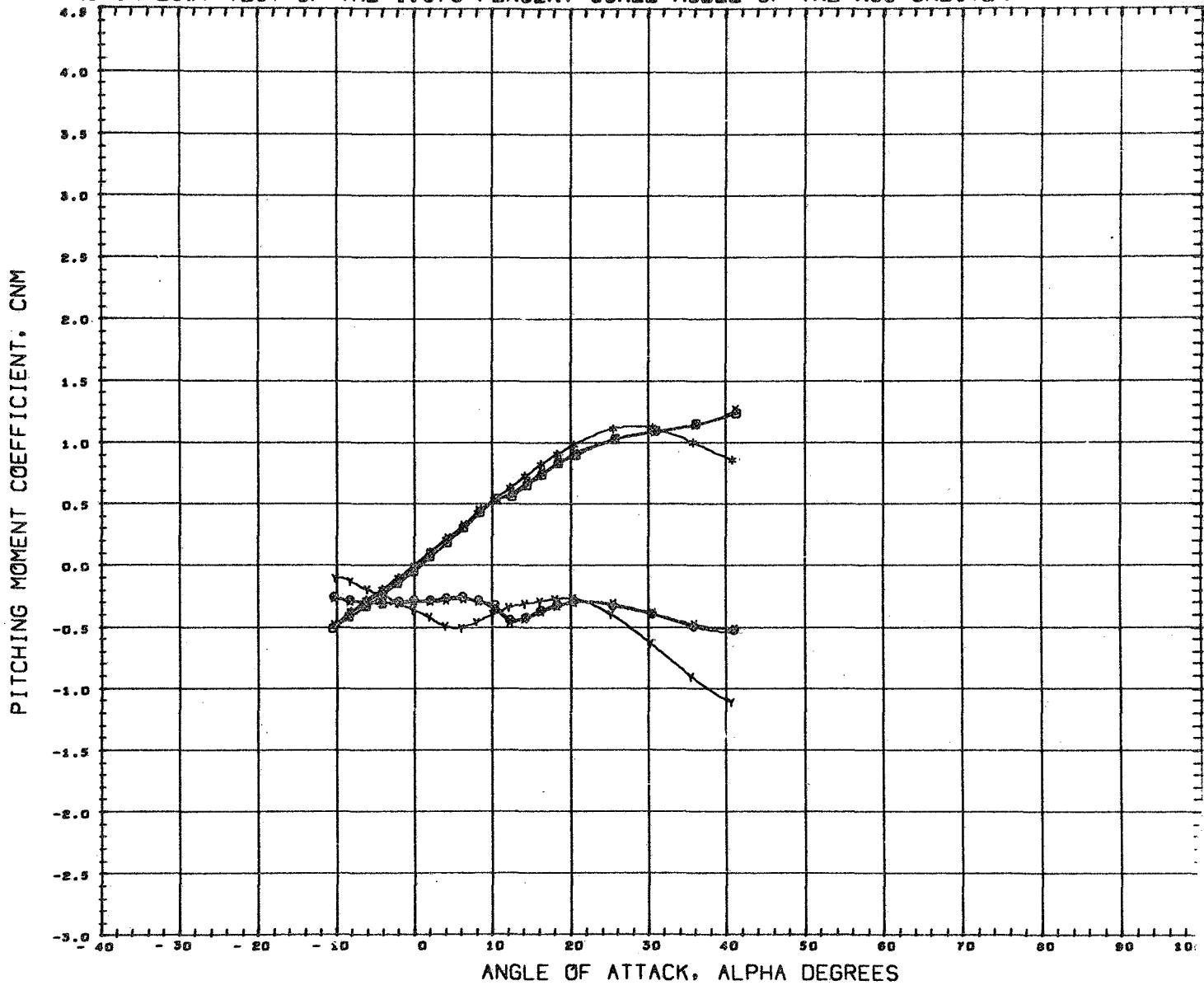
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1	(BC1001)	28 JUL 70	0.250	REFS 3.20000X10 ⁻⁰¹ Sq.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1	(BC1010)	28 JUL 70	0.250	REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSMT 223 1.875 PC MOD S5 ORB. B1V3W1	(BC1041)	28 JUL 70	0.250	REFB 1.50000X10 ⁺⁰¹ FT.
D	LSMT 223 1.875 PC MOD S5 ORB. B1H6W1	(BC1050)	28 JUL 70	0.250	XMRP 1.38570X10 ⁺⁰⁰ IN.
Y	LSMT 223 1.875 PC MOD S5 ORB. B1H6V3	(BC1031)	28 JUL 70	0.250	YMRP 0.00000X10 ⁺⁰⁰ IN.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F10)	28 JUL 70	0.250	ZMRP 2.40000X10 ⁺⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

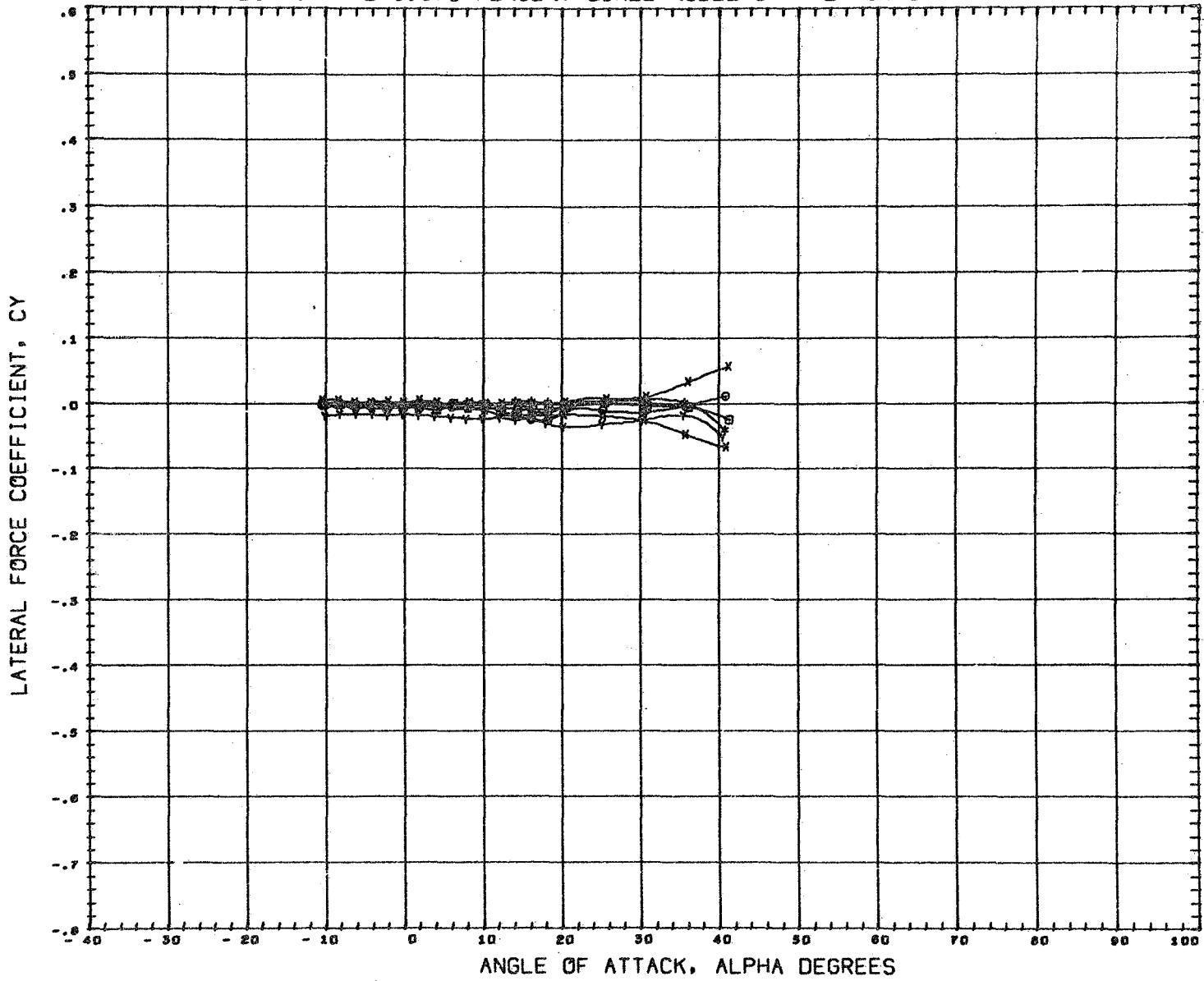
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1	(BC1001)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1	(BC1010)	28 JUL 70	REFL 2.31700X10 ⁺⁰⁰ FT.	
B	LSWT 223 1.875 PC MOD S5 ORB. B1V3W1	(BC1041)	28 JUL 70	REFB 1.50000X10 ⁺⁰⁰ FT.	
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1	(BC1050)	28 JUL 70	XHRP 1.38370X10 ⁺⁰¹ IN.	
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3	(BC1031)	28 JUL 70	YHRP 0.00000X10 ⁺⁰⁰ IN.	
K	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F10)	28 JUL 70	ZHRP 2.40000X10 ⁺⁰⁰ IN.	
				SCALE 1.87500X10 ⁻⁰²	SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

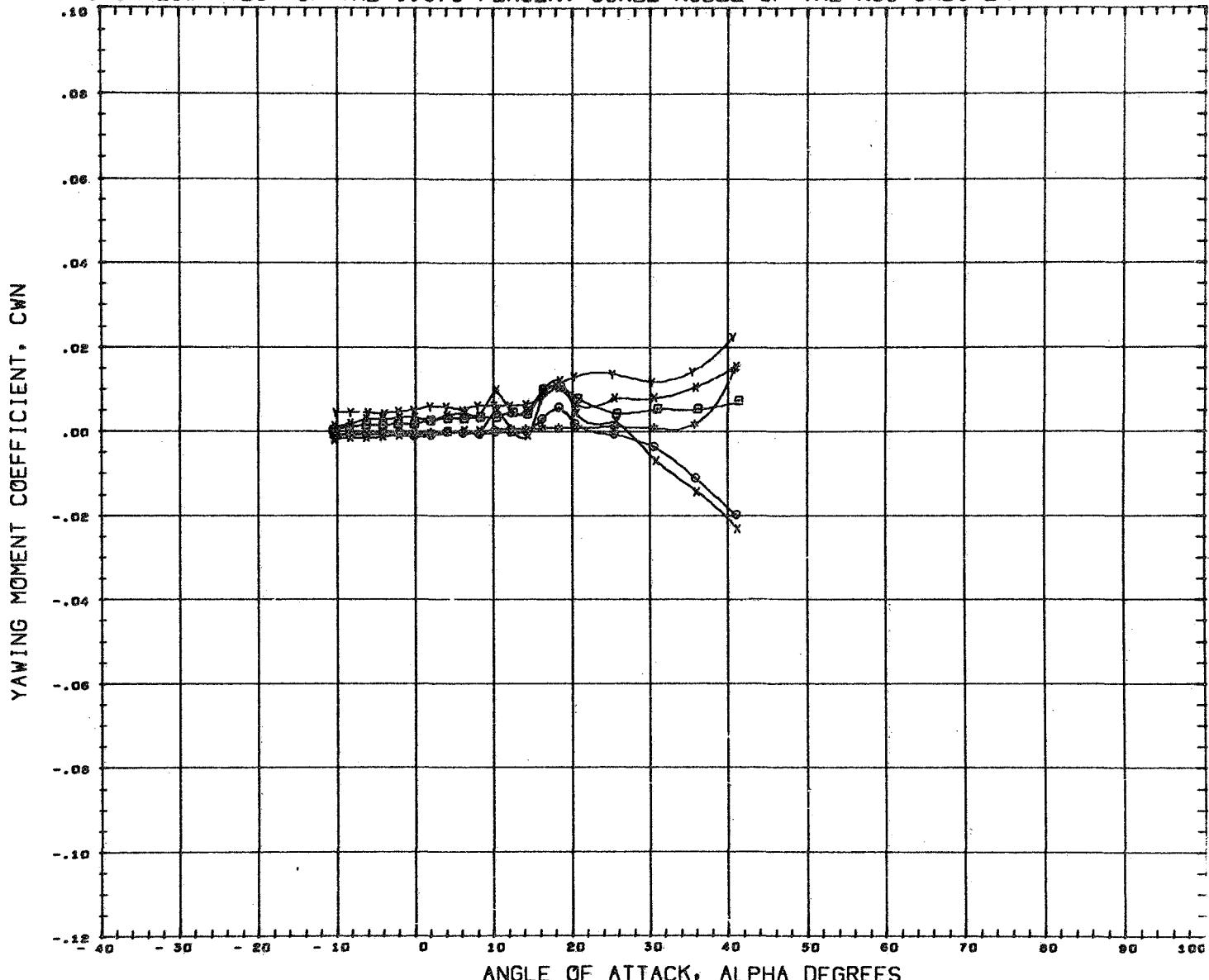


SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1V3W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)

REFERENCE FILE SDY 37100150

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1001)	28 JUL 70	0.250	REFS 3.20000X10 ⁻⁰¹ SQ.FT.
(BC1010)	28 JUL 70		REFL 2.31700X10 ⁻⁰⁰ FT.
(BC1041)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
(BC1050)	28 JUL 70		XHRF 1.30370X10 ⁺⁰¹ IN.
(BC1031)	28 JUL 70		YHRF 0.00000X10 ⁺⁰⁰ IN.
(BC1F10)	28 JUL 70		ZHRF 2.40000X10 ⁻⁰² IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

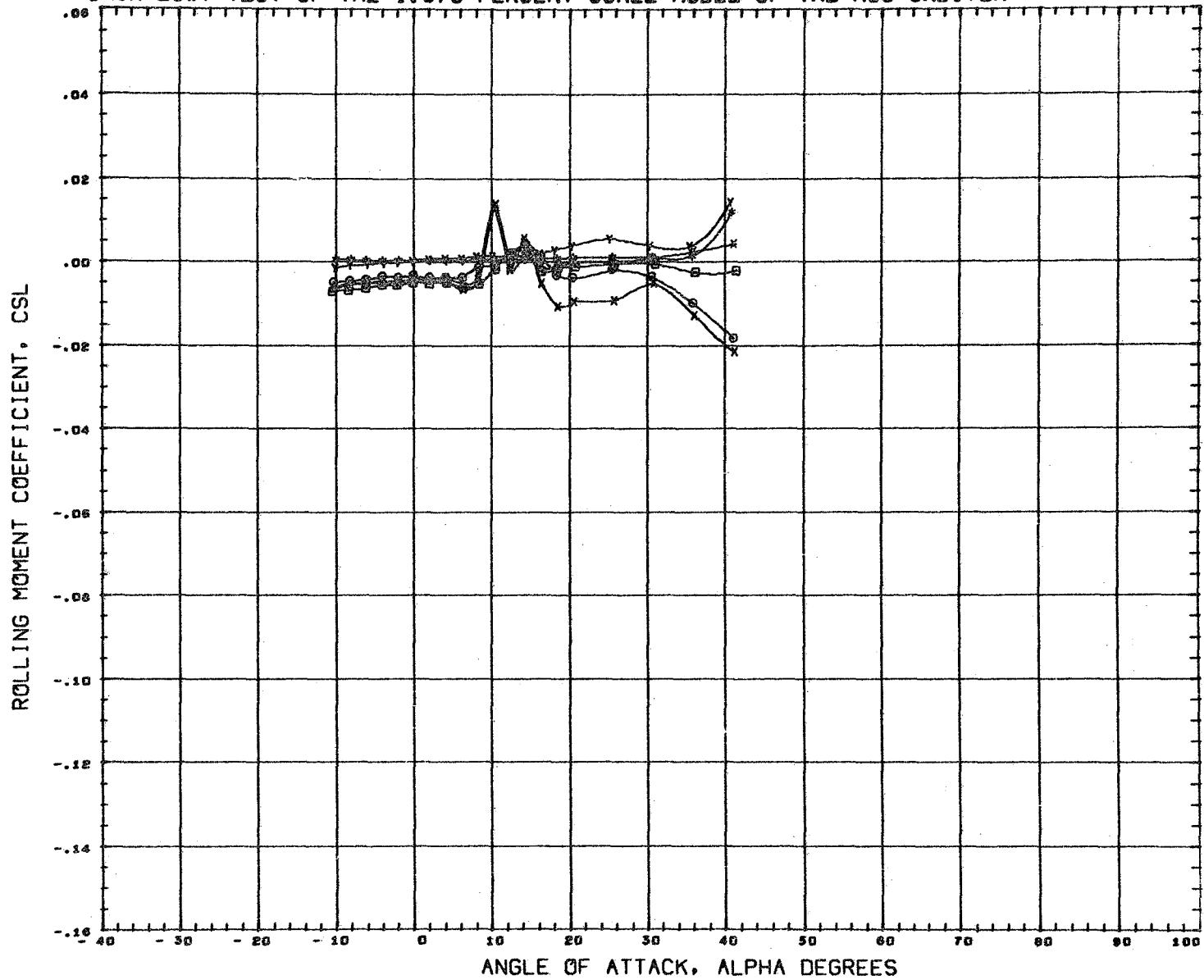


SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1V3W1
O	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1001)	28 JUL 70	0.250	REFS 3.2000X10 ⁻⁰¹ Sq.FT.
(BC1010)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
(BC1041)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.
(BC1050)	28 JUL 70		XMRP 1.38370X10 ⁺⁰¹ IN.
(BC1031)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
(BC1F10)	28 JUL 70		ZMRP 2.40000X10 ⁻⁰² IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

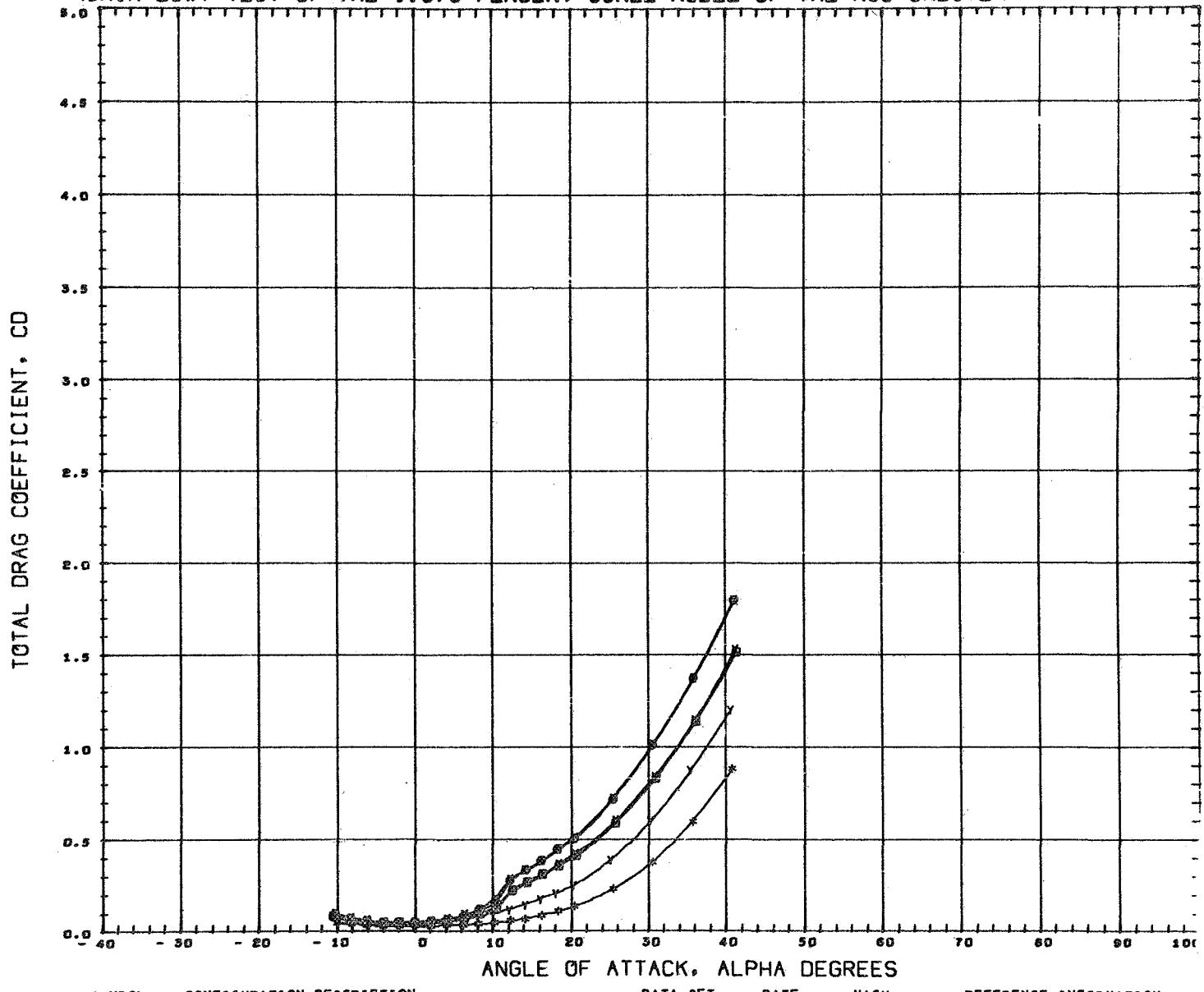


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1	(BC1001)	28 JUL 70	0.250	REFS 3.20800X10-01 SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1	(BC1010)	28 JUL 70		REFL 2.31700X10+00 FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1V3W1	(BC1041)	28 JUL 70		REFB 1.50000X10+00 FT.
O	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1	(BC1050)	28 JUL 70		XMRP 1.38370X10+00 IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3	(BC1031)	28 JUL 70		YMRP 0.00000X10+00 IN.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F10)	28 JUL 70		ZMRP 2.40000X10-02 IN.
					SCALE 1.87500X10-02 SCALE

REFERENCE FILE

SDY 37100150

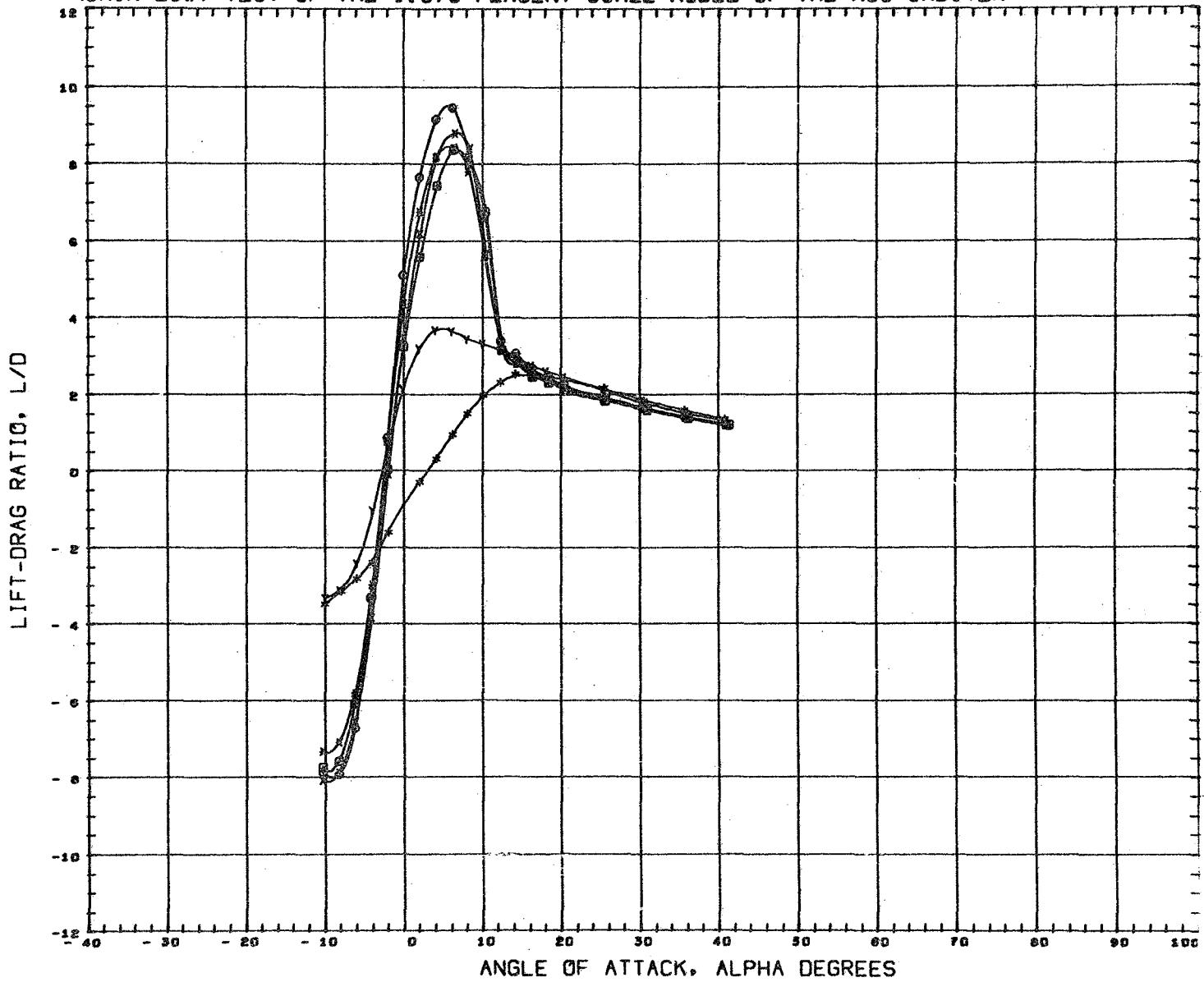
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1	(BC1001)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ Sq.FT.
x	LSWT 223 1.875 PC MOD S5 ORB. B1W1	(BC1010)	28 JUL 70	0.250	REFL 2.31700X10 ⁻⁰¹ FT.
o	LSWT 223 1.875 PC MOD S5 ORB. B1V3W1	(BC1041)	28 JUL 70	0.250	REFD 1.50000X10 ⁺⁰⁰ FT.
●	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1	(BC1050)	28 JUL 70	0.250	XMRP 1.38370X10 ⁻⁰¹ IN.
y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3	(BC1031)	28 JUL 70	0.250	YMRP 0.00000X10 ⁺⁰⁰ IN.
x	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F10)	28 JUL 70	0.250	ZMRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

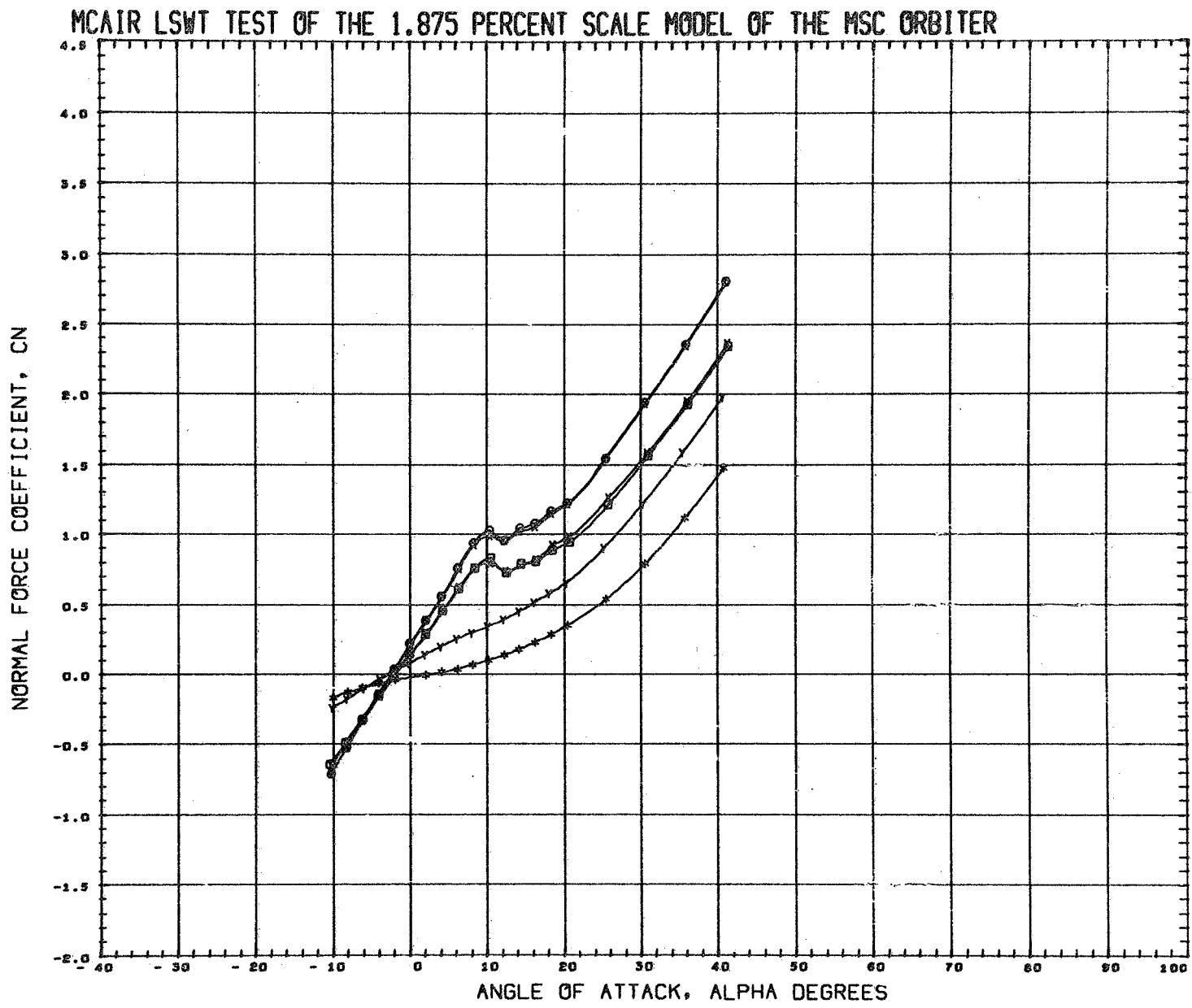
REFERENCE FILE SDY 3710015D

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH.	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1	(BC1001)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1	(BC1010)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1V3W1	(BC1041)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.
O	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1	(BC1050)	28 JUL 70		XHRP 1.38370X10 ⁺⁰¹ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3	(BC1031)	28 JUL 70		YHRP 0.00000X10 ⁺⁰⁰ IN.
.X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F10)	28 JUL 70		ZHRP 2.40000X10 ⁺⁰⁰ IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150



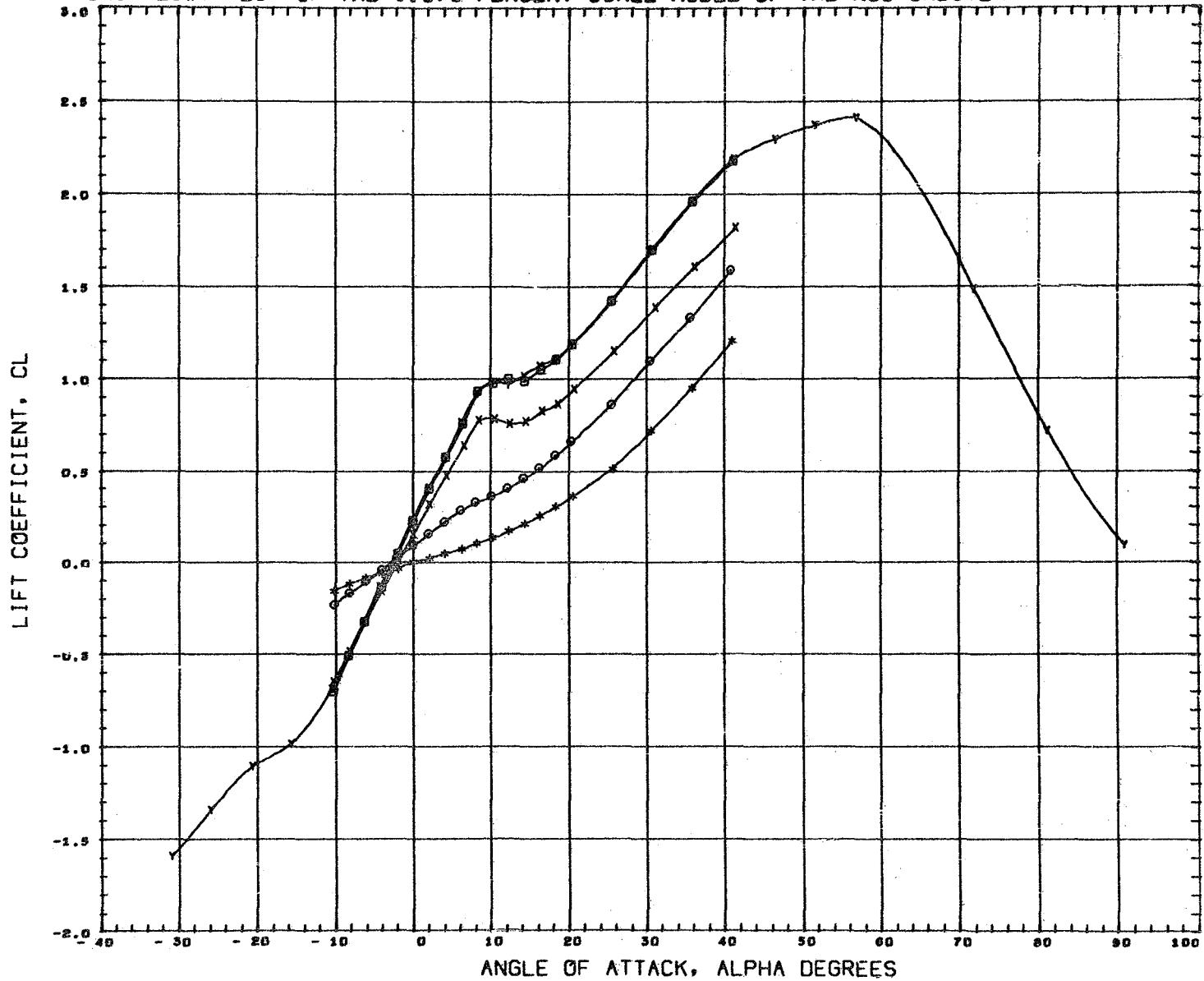
SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1V3W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)

REFERENCE FILE

SDY 37100150

DATA SET	DATE	MACH	REFERENCE INFORMATION
(AC1001)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
(AC1010)	28 JUL 70		REFL 2.31730X10 ⁻⁰¹ FT.
(AC1041)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.
(AC1050)	28 JUL 70		XMRP 1.38370X10 ⁺⁰⁰ IN.
(AC1031)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
(AC1F10)	28 JUL 70		ZMRP 2.40000X10 ⁺⁰⁰ IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

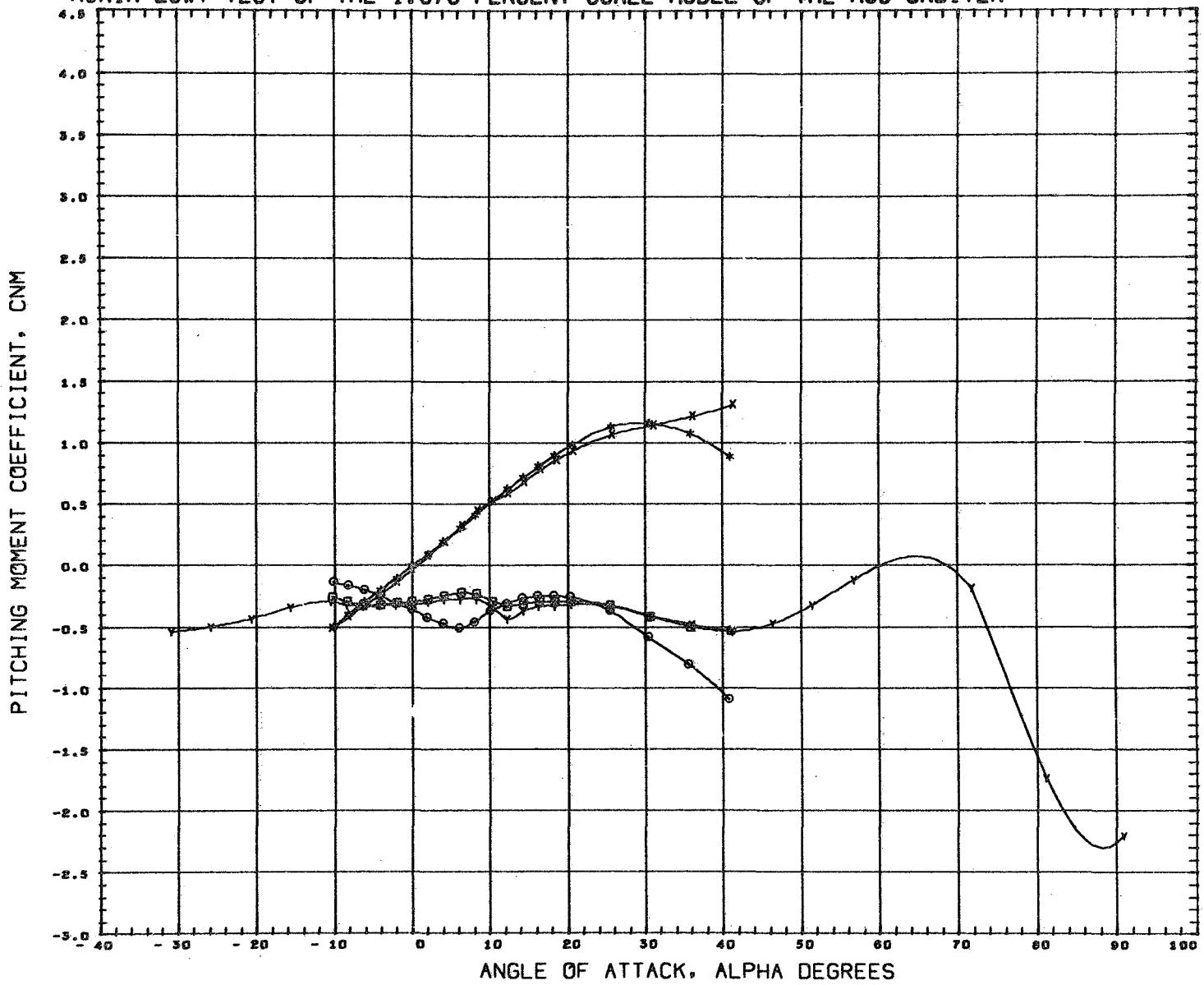
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1	(BC1002)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1	(BC1013)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1	(BC1053)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.
O	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3	(BC1032)	28 JUL 70		XMRP 1.38370X10 ⁺⁰⁰ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6B3W1 (FWD)	(CC1FD1)	29 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
					ZMRP 2.40000X10 ⁺⁰⁰ IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



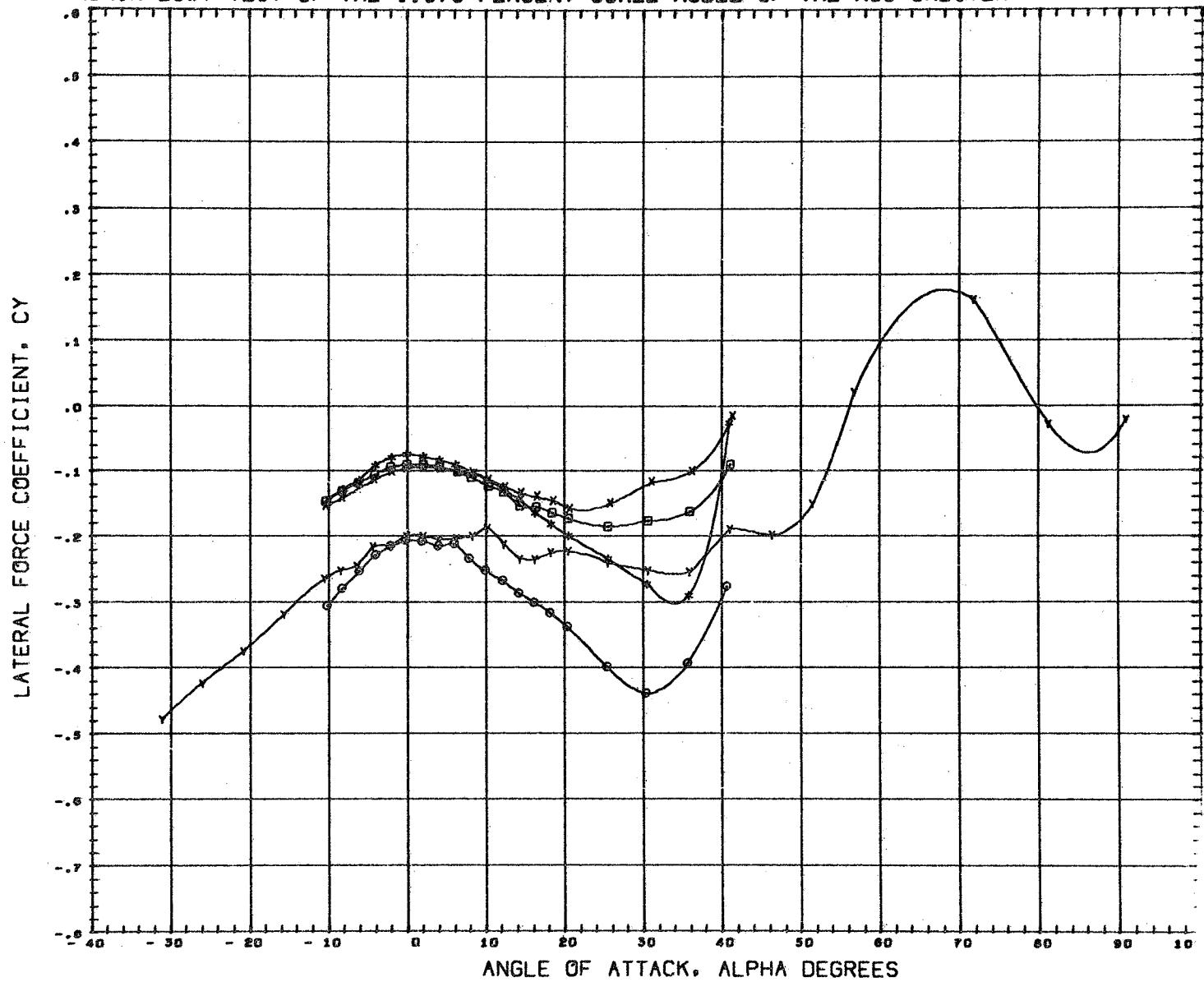
SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
O	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6B3W1 (FWD)

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1002)	28 JUL 70	0.250	REFS 3.20800×10^{-01} SQ.FT.
(BC1013)	28 JUL 70		REFL 2.31700×10^{-01} FT.
(BC1053)	28 JUL 70		REFB $1.50000 \times 10^{+00}$ FT.
(BC1032)	28 JUL 70		XMRP $1.38370 \times 10^{+01}$ IN.
(CC1FD1)	29 JUL 70		YMRP $0.00000 \times 10^{+00}$ IN.
			ZMRP $2.40000 \times 10^{+00}$ IN.
			SCALE 1.87500×10^{-02} SCALE

REFERENCE FILE

SDV 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

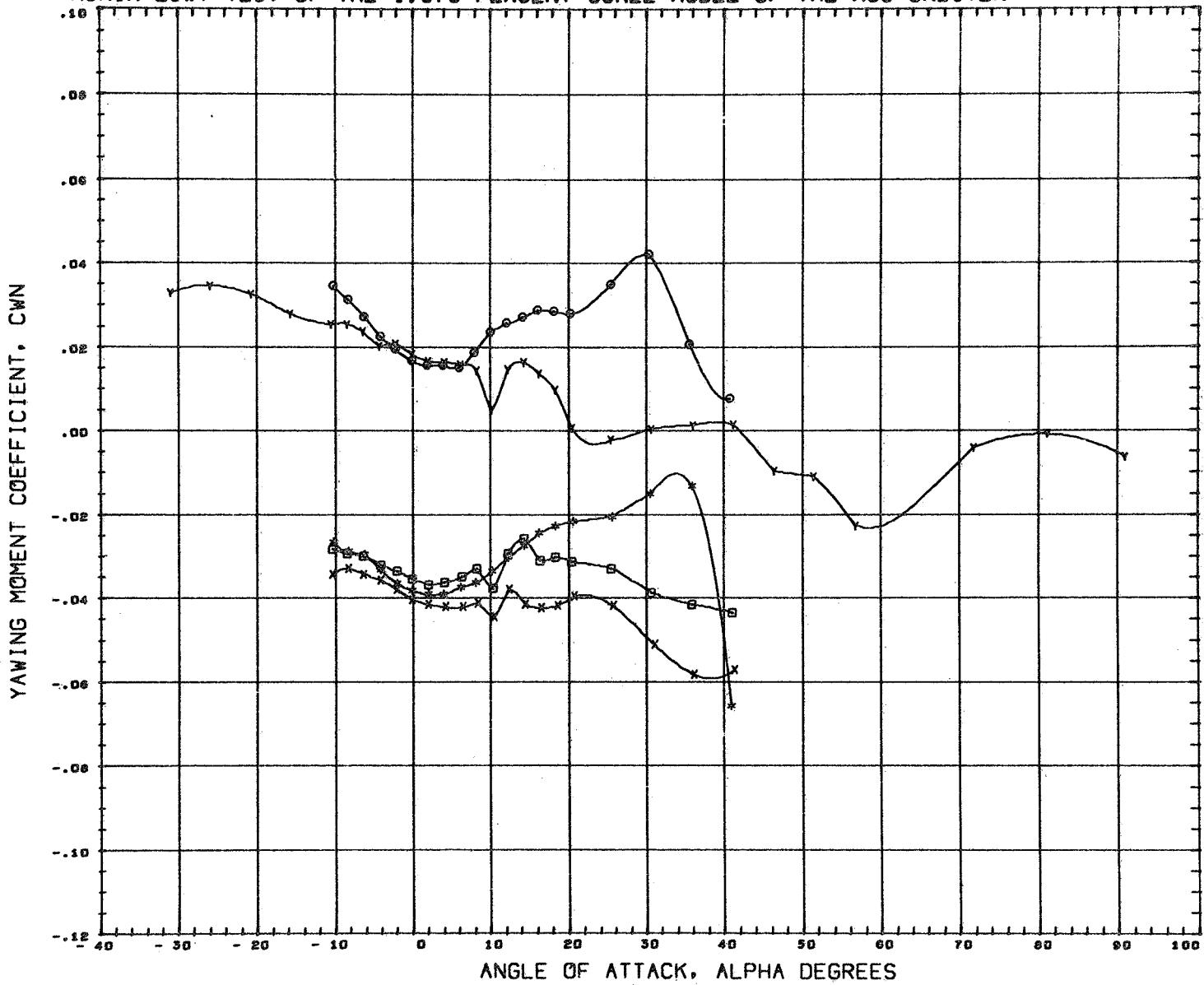


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1	(BC1002)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SE.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1	(BC1013)	28 JUL 70	0.250	REFL 2.31700X10 ⁻⁰¹ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1	(BC1053)	28 JUL 70	0.250	REFB 1.50000X10 ⁻⁰¹ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3	(BC1032)	28 JUL 70	0.250	XHRF 1.38370X10 ⁻⁰¹ IN.
V	LSWT 223 1.875 PC MOD S5 ORB. B1H6B3W1 (FWD)	(CC1F01)	29 JUL 70	0.250	YHRF 0.00000X10 ⁺⁰⁰ IN.
					ZMRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

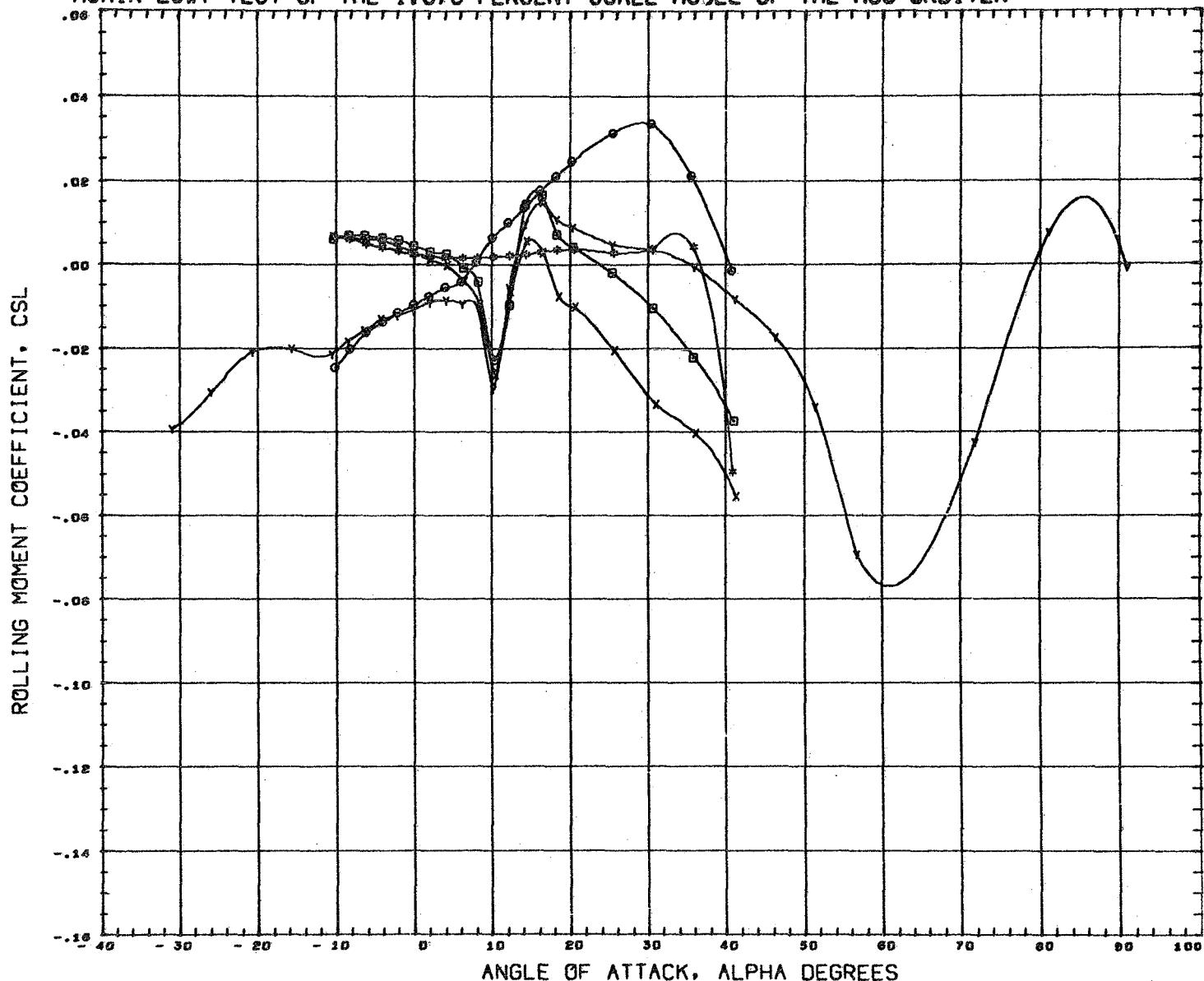


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1	(BC1002)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ Sq.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1	(BC1013)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3	(BC1053)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3	(BC1032)	28 JUL 70		XNRP 1.38370X10 ⁺⁰¹ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6B3W1 (FWD)	(CC1F01)	29 JUL 70		YNRP 0.00000X10 ⁺⁰⁰ IN.
					ZNRP 2.40000X10 ⁺⁰⁰ IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

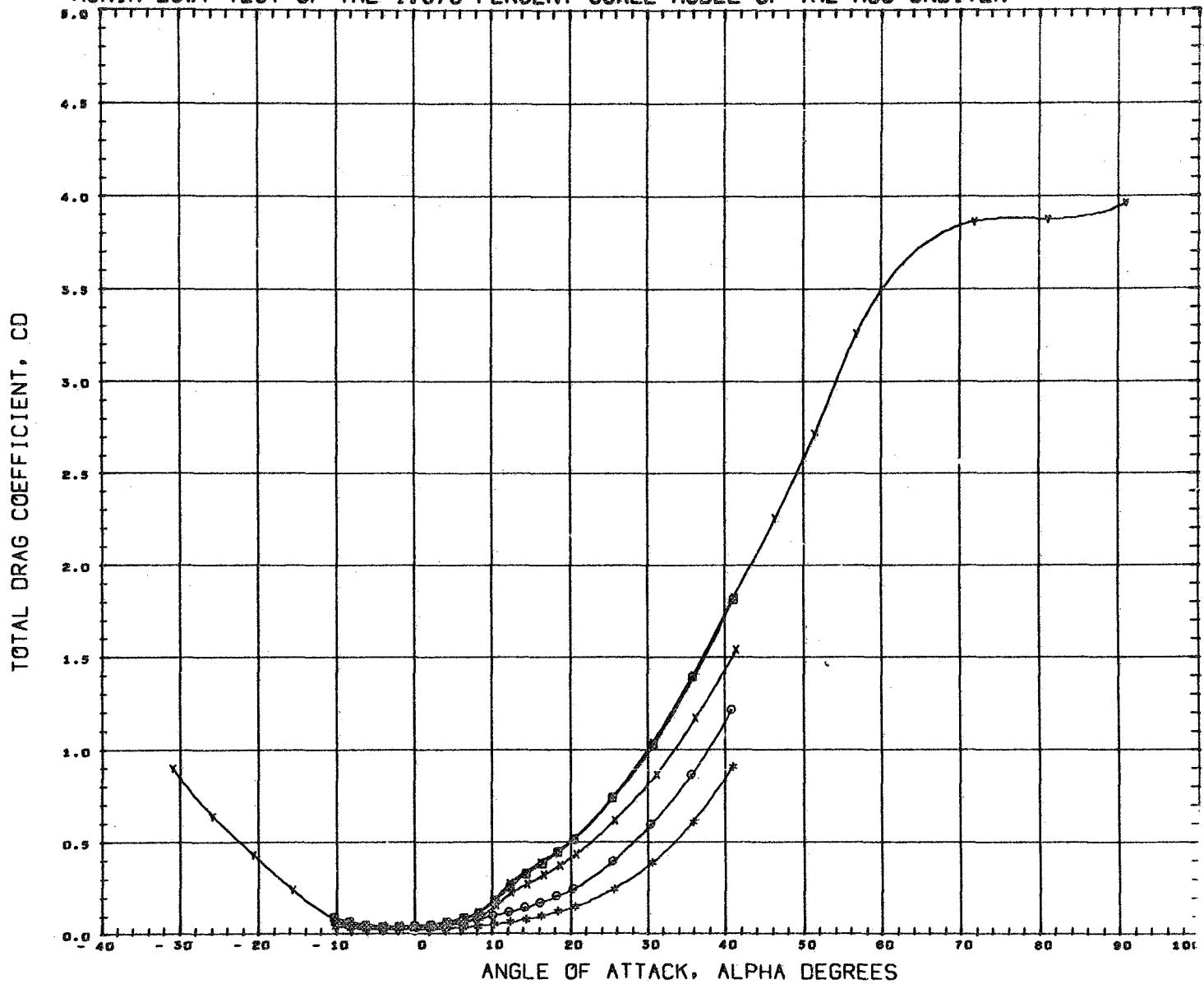


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1	(BC1002)	28 JUL 70	0.250	REFS: 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1	(BC1013)	28 JUL 70		REFL: 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1	(BC1033)	28 JUL 70		REFB: 1.50000X10 ⁺⁰¹ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3	(BC1032)	28 JUL 70		XNRP: 1.58370X10 ⁺⁰¹ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6B3W1 (FWD)	(CC1F01)	29 JUL 70		YNRP: 0.00000X10 ⁺⁰⁰ IN.
					ZHRP: 2.40000X10 ⁺⁰⁰ IN.
					SCALE: 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

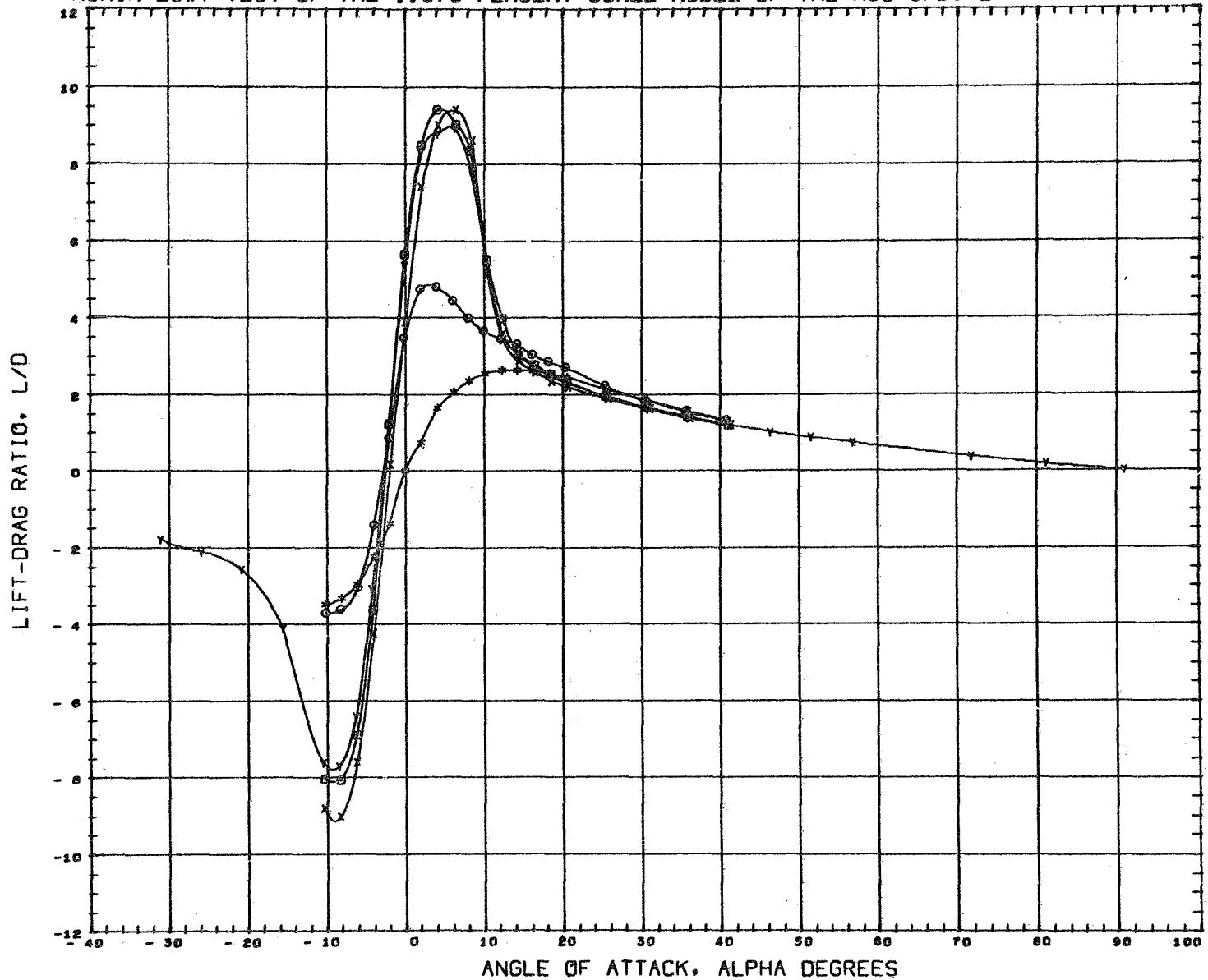
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1	(BC1002)	28 JUL 70	0.250	REFS 3.20800×10^{-01} SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1	(BC1013)	28 JUL 70		REFL $2.31700 \times 10^{+00}$ FT.
B	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1	(BC1053)	28 JUL 70		REFB 1.50000×10^{-01} FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3	(BC1032)	28 JUL 70		XHRP $1.38370 \times 10^{+00}$ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6B3W1 (FWD)	(CC1F01)	29 JUL 70		YMRP $0.00000 \times 10^{+00}$ IN.
					ZMRP 2.40000×10^{-02} IN.
					SCALE 1.87500×10^{-02} IN.
					SCALE

REFERENCE FILE: SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

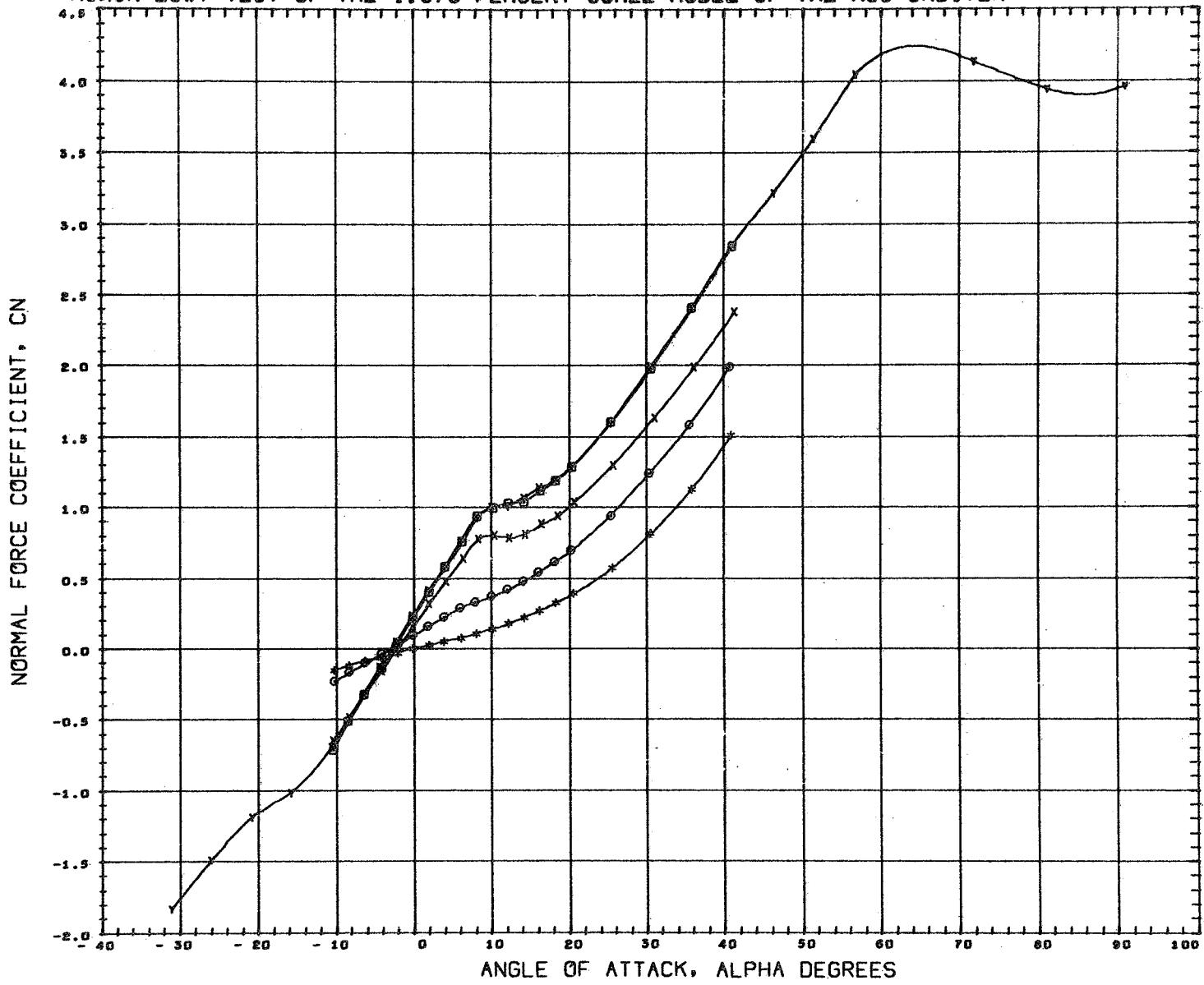


SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6B3W1 (FWD)

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1002)	28 JUL 70	0.250	REFS 3.20800×10^{-01} SE.FT.
(BC1013)	28 JUL 70		REFL $2.31700 \times 10^{+00}$ FT.
(BC1053)	28 JUL 70		REFB $1.50000 \times 10^{+01}$ FT.
(BC1032)	28 JUL 70		XHRP $1.36370 \times 10^{+00}$ IN.
(CC1F01)	29 JUL 70		YHRP $0.00000 \times 10^{+00}$ IN.
			ZHRP $2.40000 \times 10^{+00}$ IN.
			SCALE 1.87500×10^{-02} SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



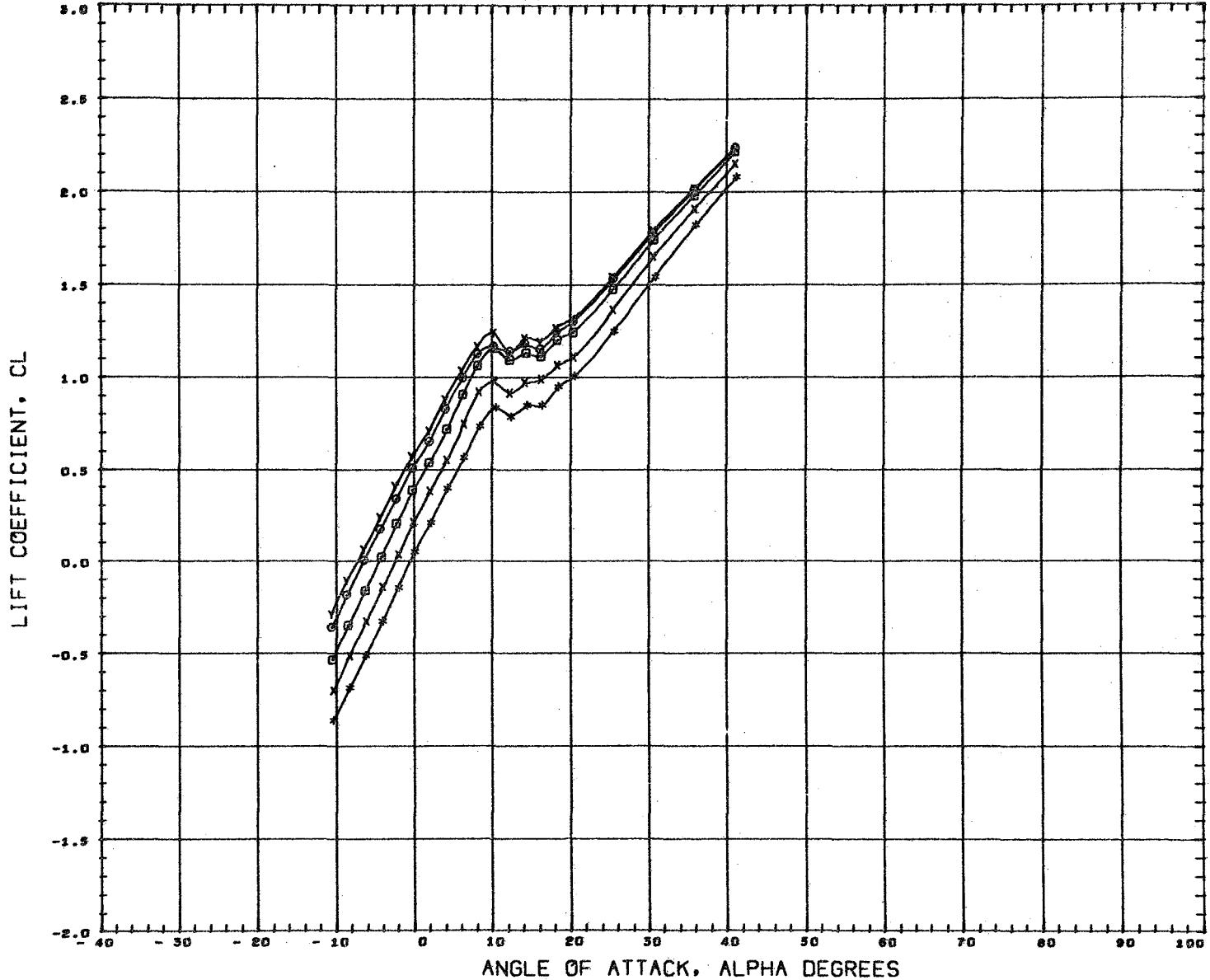
SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1
X	LSWT 223 1.875 PC MOD S5 ORB. B1W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
O	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6B3W1 (FWD)

DATA SET	DATE	MACH	REFERENCE INFORMATION
(AC1002)	26 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
(AC1013)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(AC1053)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
(AC1032)	28 JUL 70		XMRP 1.38370X10 ⁺⁰¹ IN.
(DC1F01)	29 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
			ZMRP 1.40000X10 ⁻⁰² IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

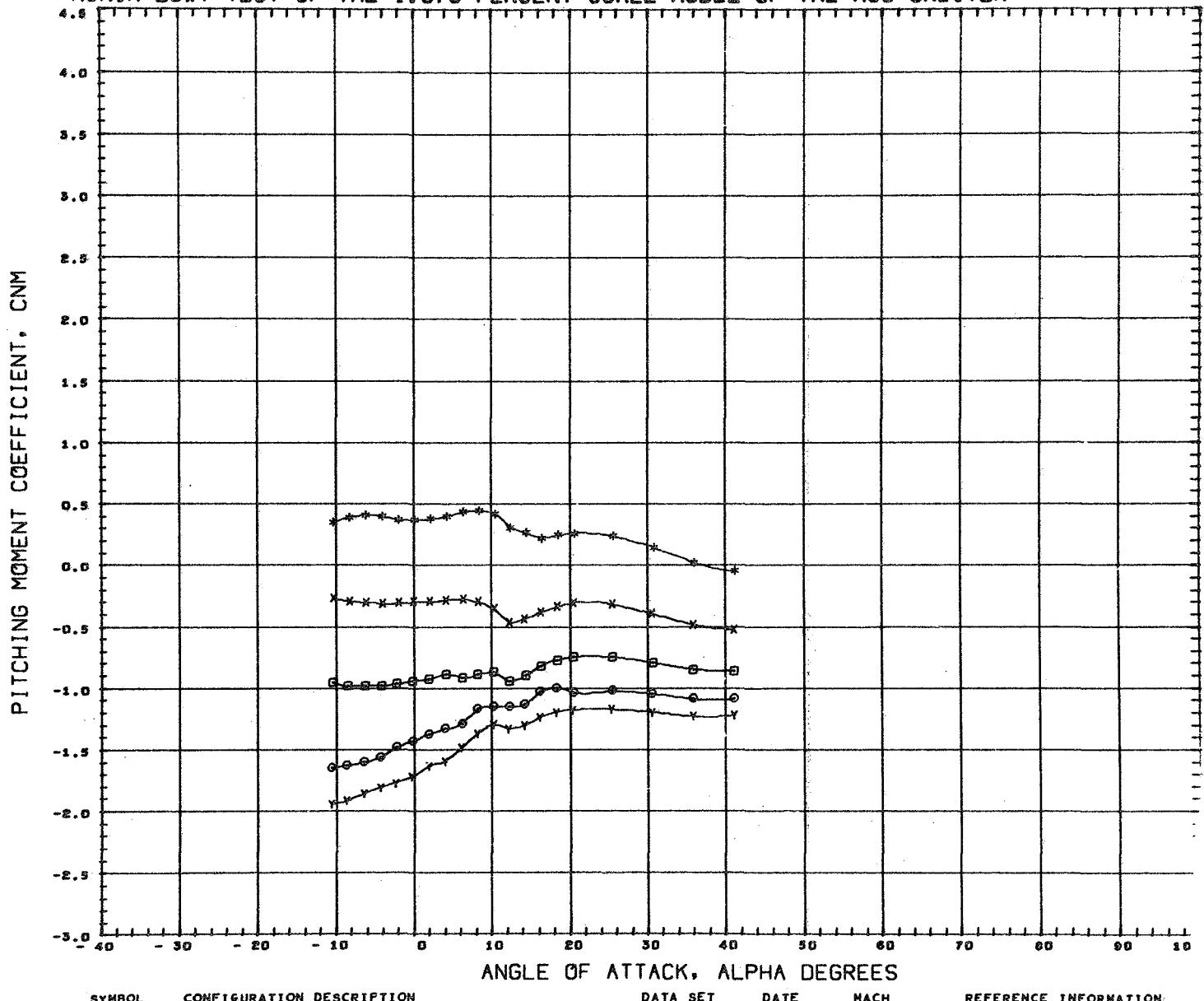


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F05)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F10)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
S	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F04)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.
O	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F06)	28 JUL 70		XHRP 1.38370X10 ⁺⁰⁰ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F07)	28 JUL 70		YHRP 0.00000X10 ⁺⁰⁰ IN.
					ZHRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

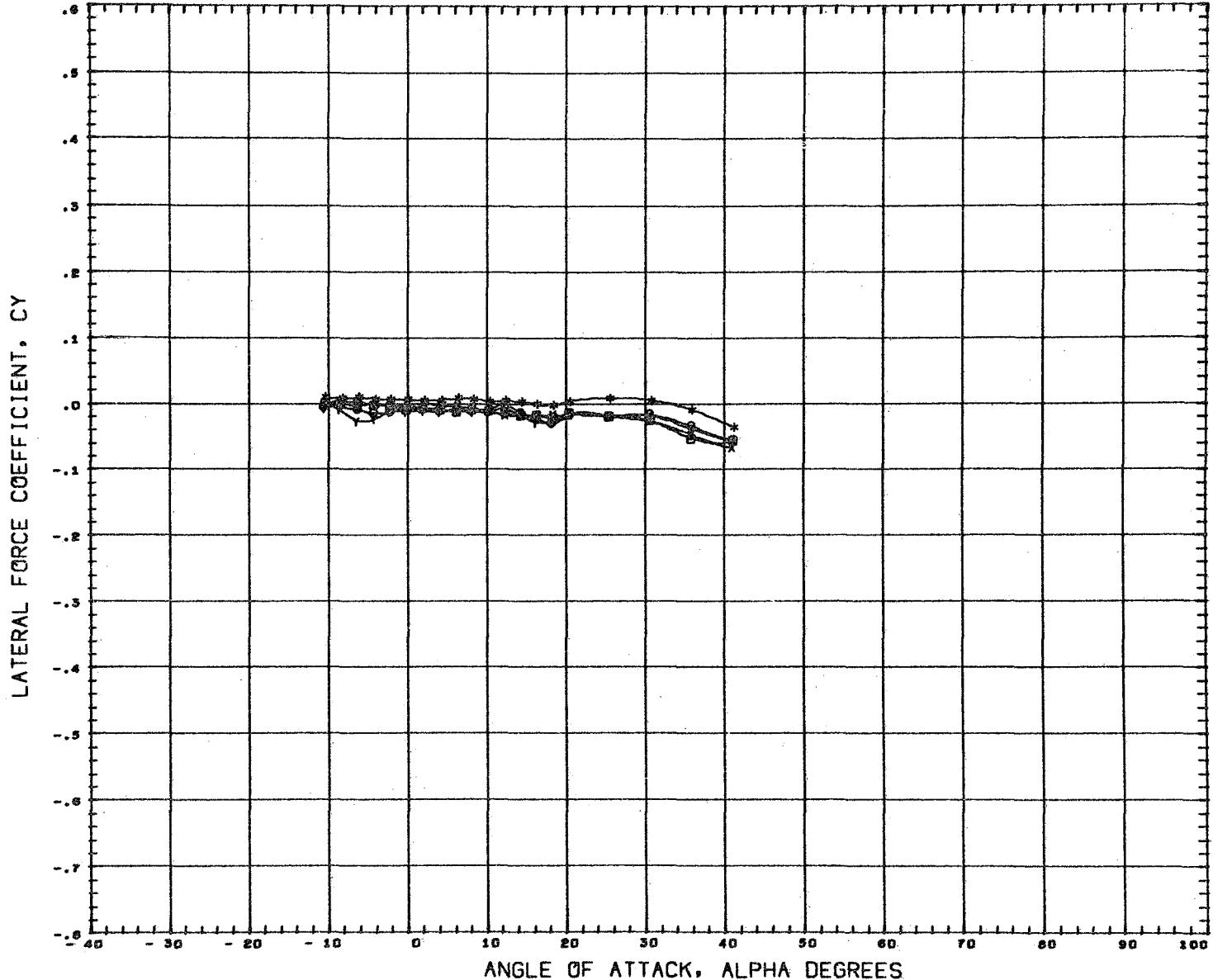


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F05)	28 JUL 70	0.250	REFS 3.20800×10^{-01} Sq.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F10)	28 JUL 70	0.250	REFL $2.31700 \times 10^{+01}$ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F04)	28 JUL 70	0.250	REFB $1.50000 \times 10^{+01}$ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F06)	28 JUL 70	0.250	XHRP $1.38370 \times 10^{+01}$ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F07)	28 JUL 70	0.250	YHRP $0.00000 \times 10^{+00}$ IN.
					ZHRP $2.40000 \times 10^{+00}$ IN.
					SCALE 1.87500×10^{-02} SCALE

REFERENCE FILE

SDY 37100150

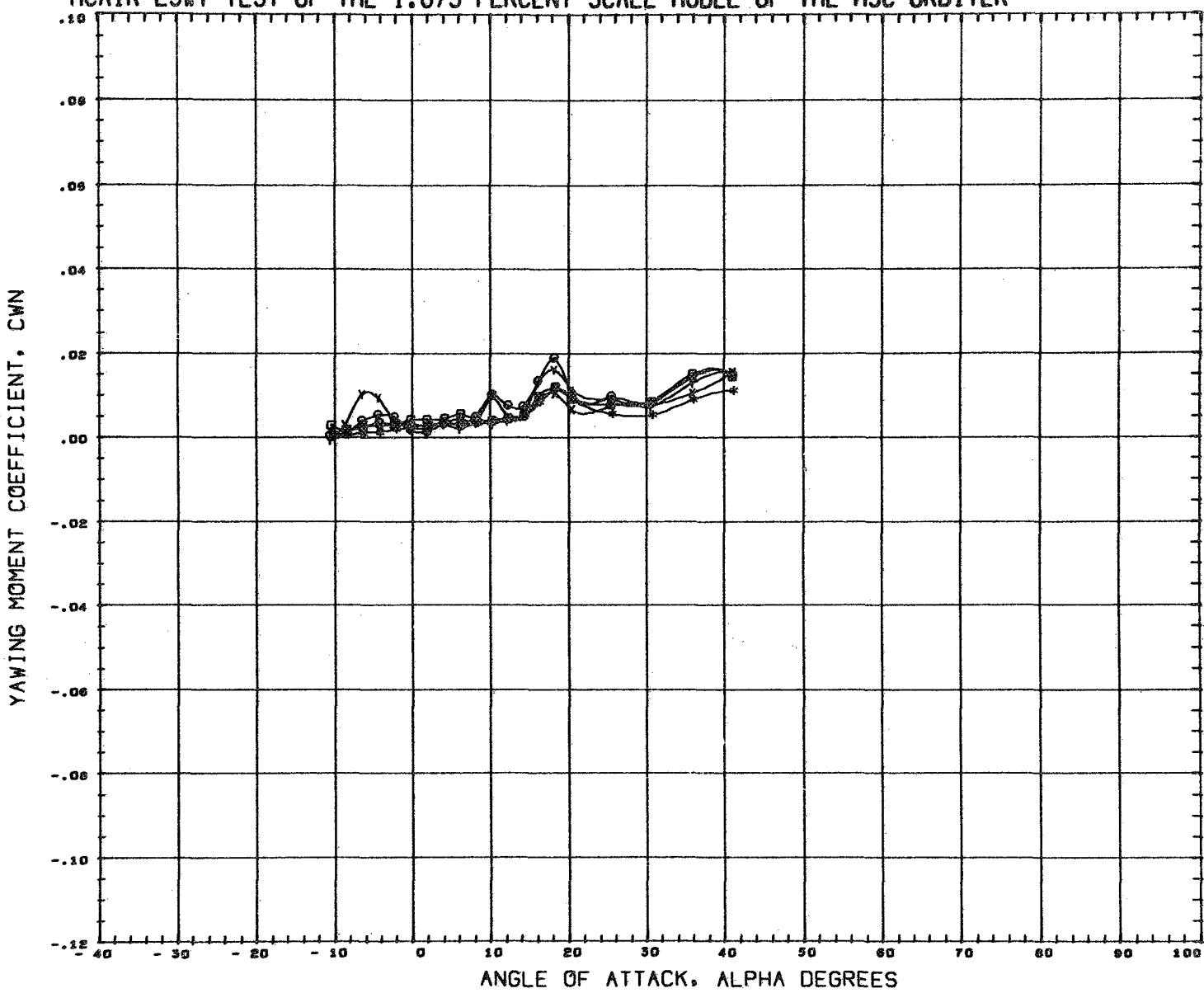
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1FD5)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1FD0)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1FD4)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1FD6)	28 JUL 70		XHRP 1.38370X10 ⁺⁰⁰ IN.
V	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1FD7)	28 JUL 70		YHRP 0.00000X10 ⁺⁰⁰ IN.
					ZHRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

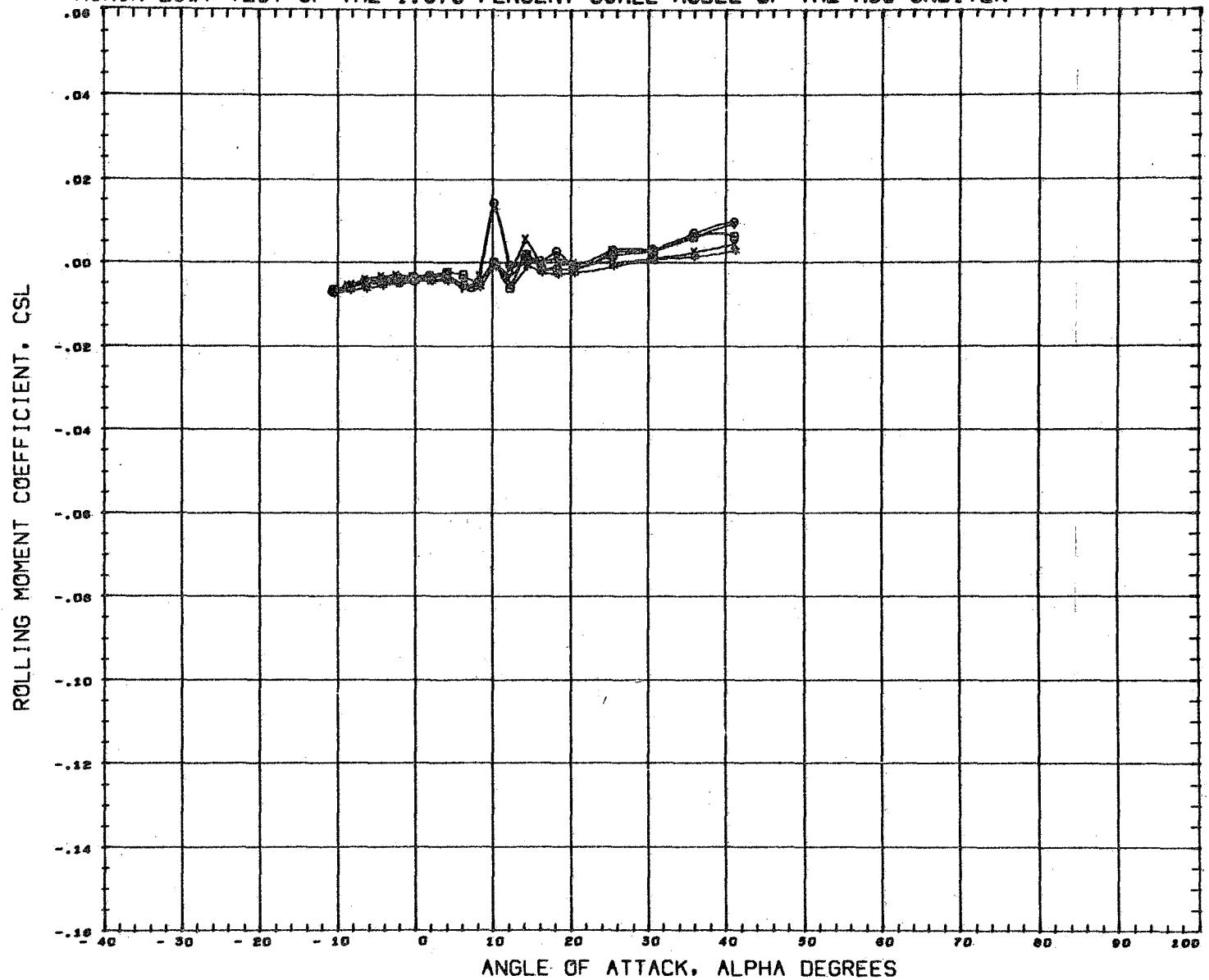
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F05)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ Sq.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F10)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F04)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
O	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F06)	28 JUL 70		XHRP 1.38370X10 ⁺⁰⁰ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F07)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
					ZHRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



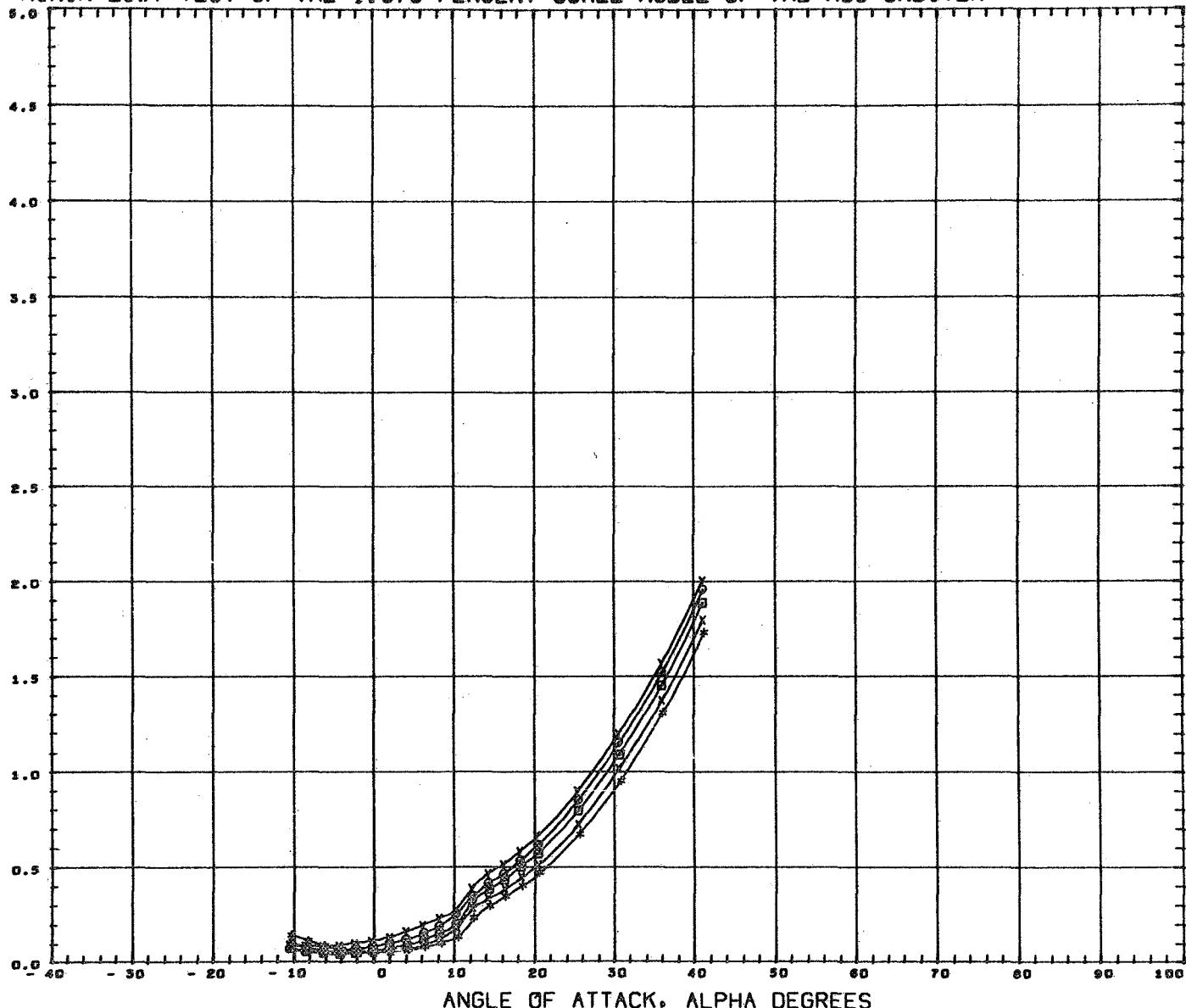
SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F05)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ Sq.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F10)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F04)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
O	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F06)	28 JUL 70		XMRP 1.38370X10 ⁻⁰¹ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F07)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
					ZMRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

TOTAL DRAG COEFFICIENT, CD



SYMBOL CONFIGURATION DESCRIPTION

- * LSWT 223 1.875 FC MOD S5 ORB. B1H6V3W1 (FWD)
- X LSWT 223 1.875 FC MOD S5 ORB. B1H6V3W1 (FWD)
- G LSWT 223 1.875 FC MOD S5 ORB. B1H6V3W1 (FWD)
- O LSWT 223 1.875 FC MOD S5 ORB. B1H6V3W1 (FWD)
- Y LSWT 223 1.875 FC MOD S5 ORB. B1H6V3W1 (FWD)

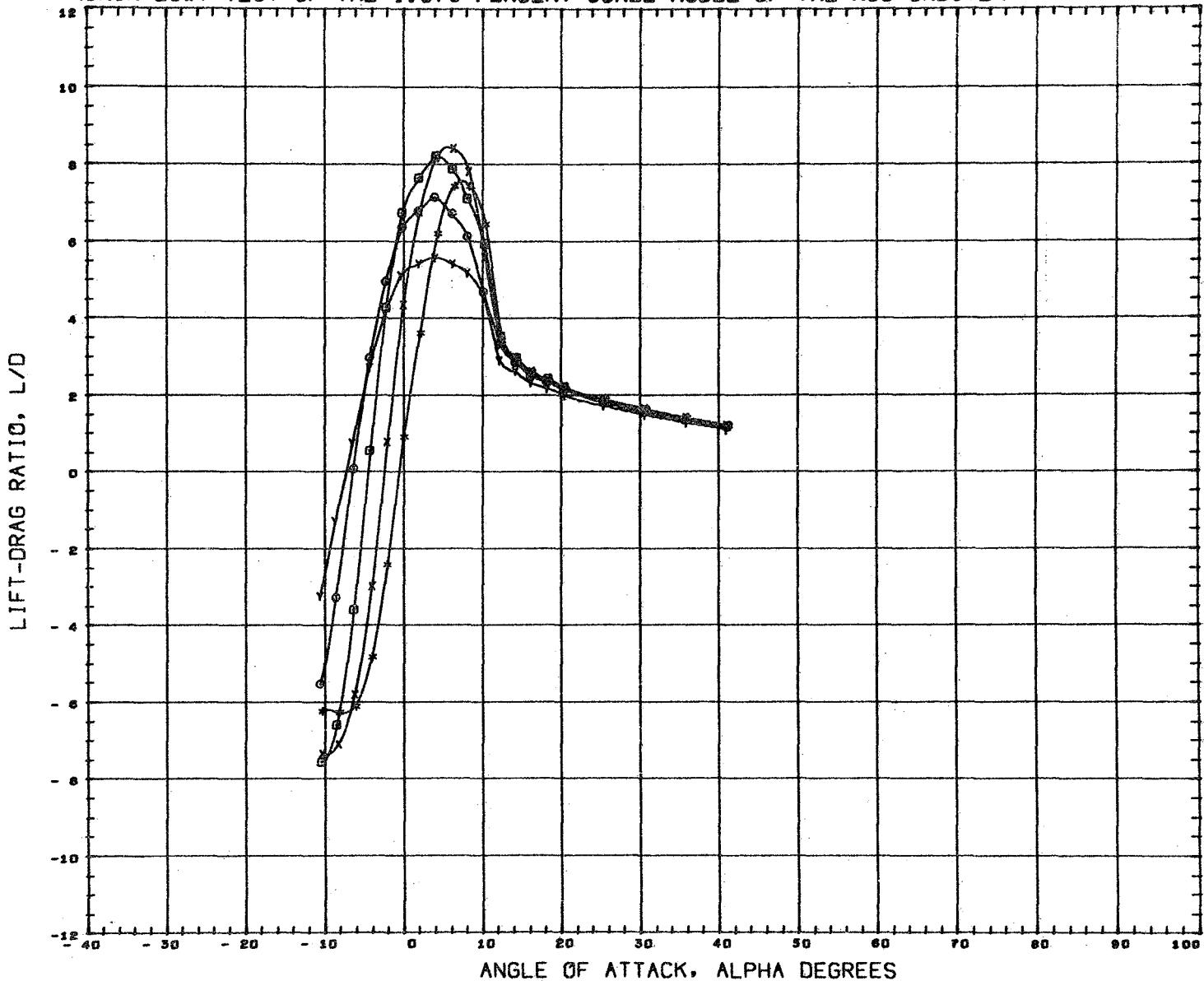
DATA SET DATE MACH REFERENCE INFORMATION

DATA SET	DATE	MACH	REFS	SCALE
(BC1F05)	28 JUL 70	0.250	3.20000X10 ⁻⁰¹	SE.FT.
(BC1F10)	28 JUL 70	0.250	2.31700X10 ⁺⁰⁰	FT.
(BC1F04)	28 JUL 70	0.250	1.50000X10 ⁺⁰⁰	FT.
(BC1F06)	28 JUL 70	0.250	1.38370X10 ⁺⁰¹	IN.
(BC1F07)	28 JUL 70	0.250	0.00000X10 ⁺⁰⁰	IN.
			ZMRP 2.40000X10 ⁺⁰⁰	IN.
			SCALE 1.87500X10 ⁻⁰²	SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



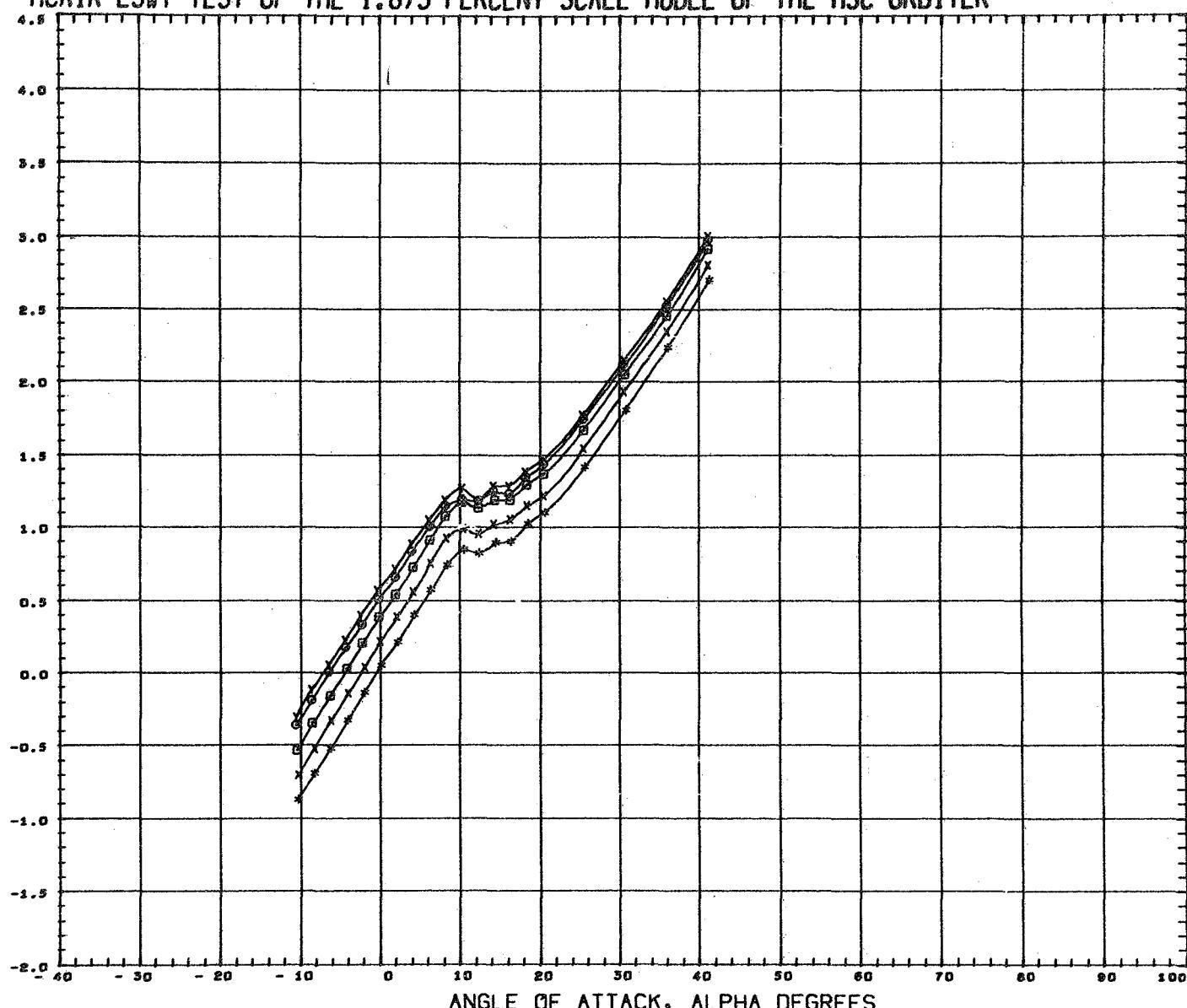
SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F05)	28 JUL 70	0.250	REFS 3.20000x10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F10)	28 JUL 70	0.250	REFL 2.31700x10 ⁺⁰⁰ FT.
O	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F04)	28 JUL 70	0.250	REFB 1.50000x10 ⁺⁰¹ FT.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F06)	28 JUL 70	0.250	XNRP 1.38370x10 ⁺⁰¹ IN.
		(BC1F07)	28 JUL 70	0.250	YNRP 0.00000x10 ⁺⁰⁰ IN.
					ZHRP 2.40000x10 ⁺⁰⁰ IN.
					SCALE 1.87500x10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

NORMAL FORCE COEFFICIENT, CN

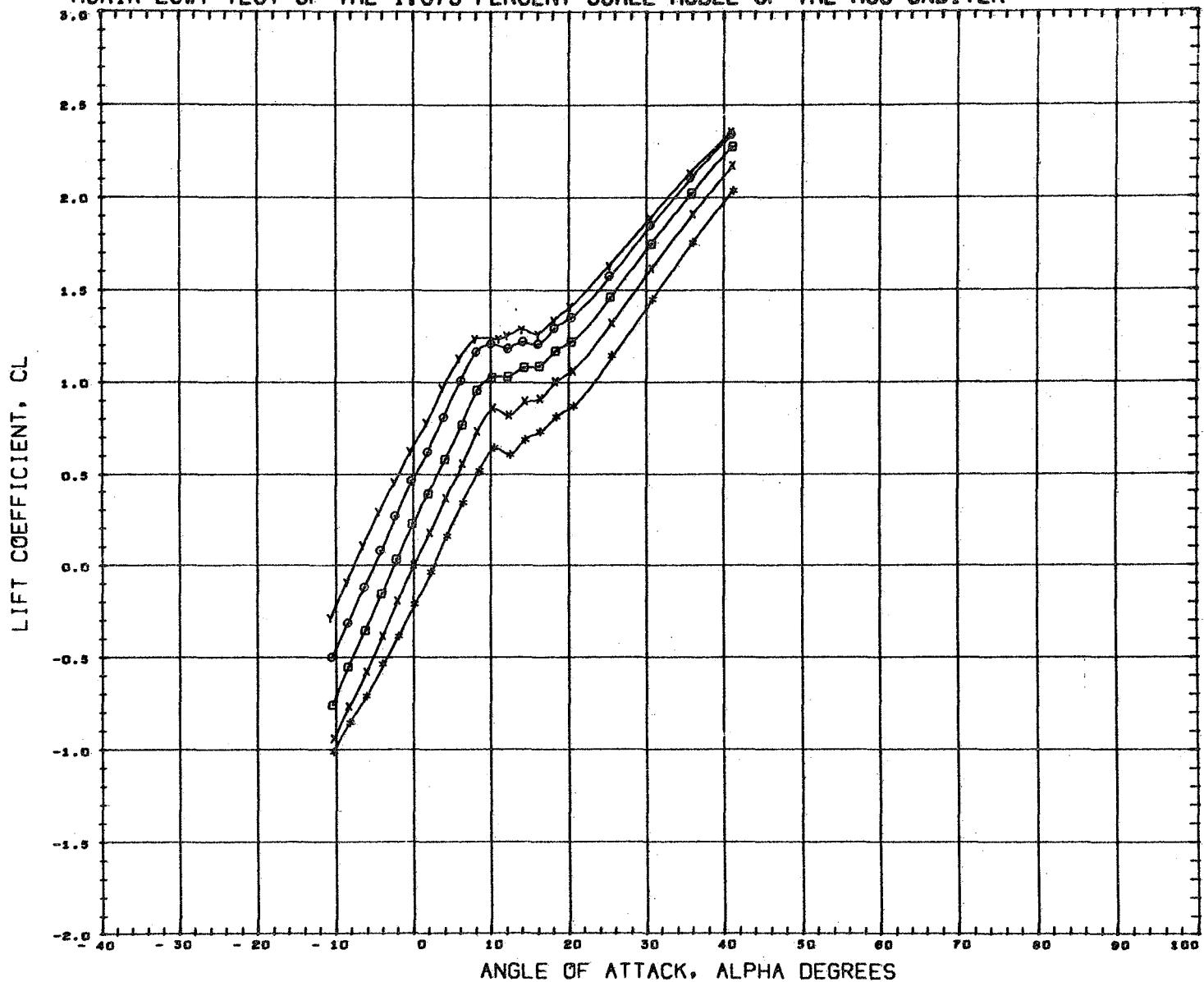


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(AC1F05)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(AC1F10)	28 JUL 70	0.250	REFL 2.31700X10 ⁻⁰¹ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(AC1F04)	28 JUL 70	0.250	REFB 1.50000X10 ⁺⁰⁰ FT.
O	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(AC1F06)	28 JUL 70	0.250	XMRP 1.38370X10 ⁺⁰¹ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(AC1F07)	28 JUL 70	0.250	YMRP 0.00000X10 ⁺⁰⁰ IN.
					ZMRP 2.40000X10 ⁺⁰⁰ IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



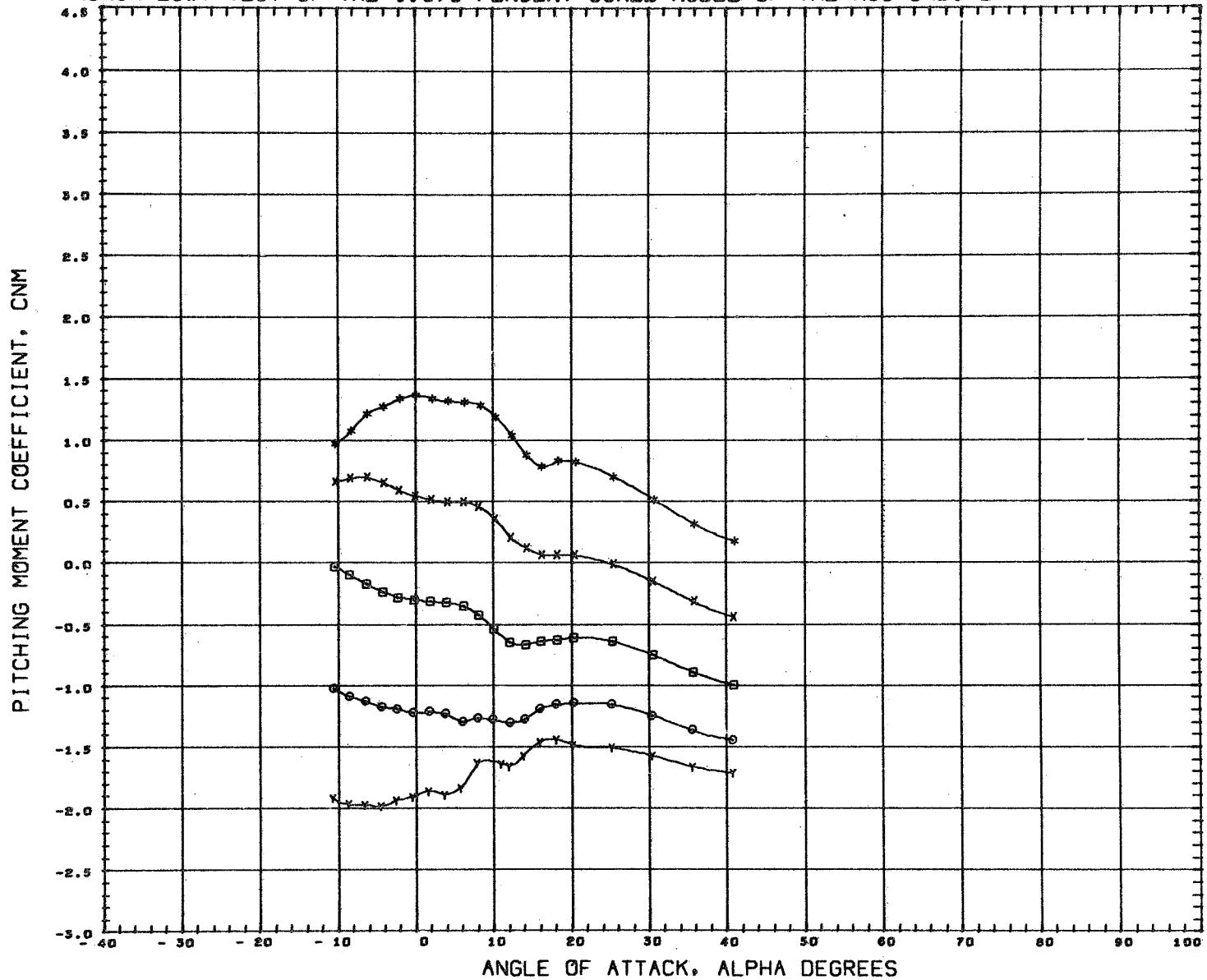
SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1
X	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1
●	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1
○	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1
□	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1073)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
(BC1072)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
(BC1070)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
(BC1071)	28 JUL 70		XHRF 1.38370X10 ⁺⁰¹ IN.
(BC1074)	28 JUL 70		YHRP 0.00000X10 ⁺⁰⁰ IN.
			ZNRP 2.40000X10 ⁺⁰⁰ IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

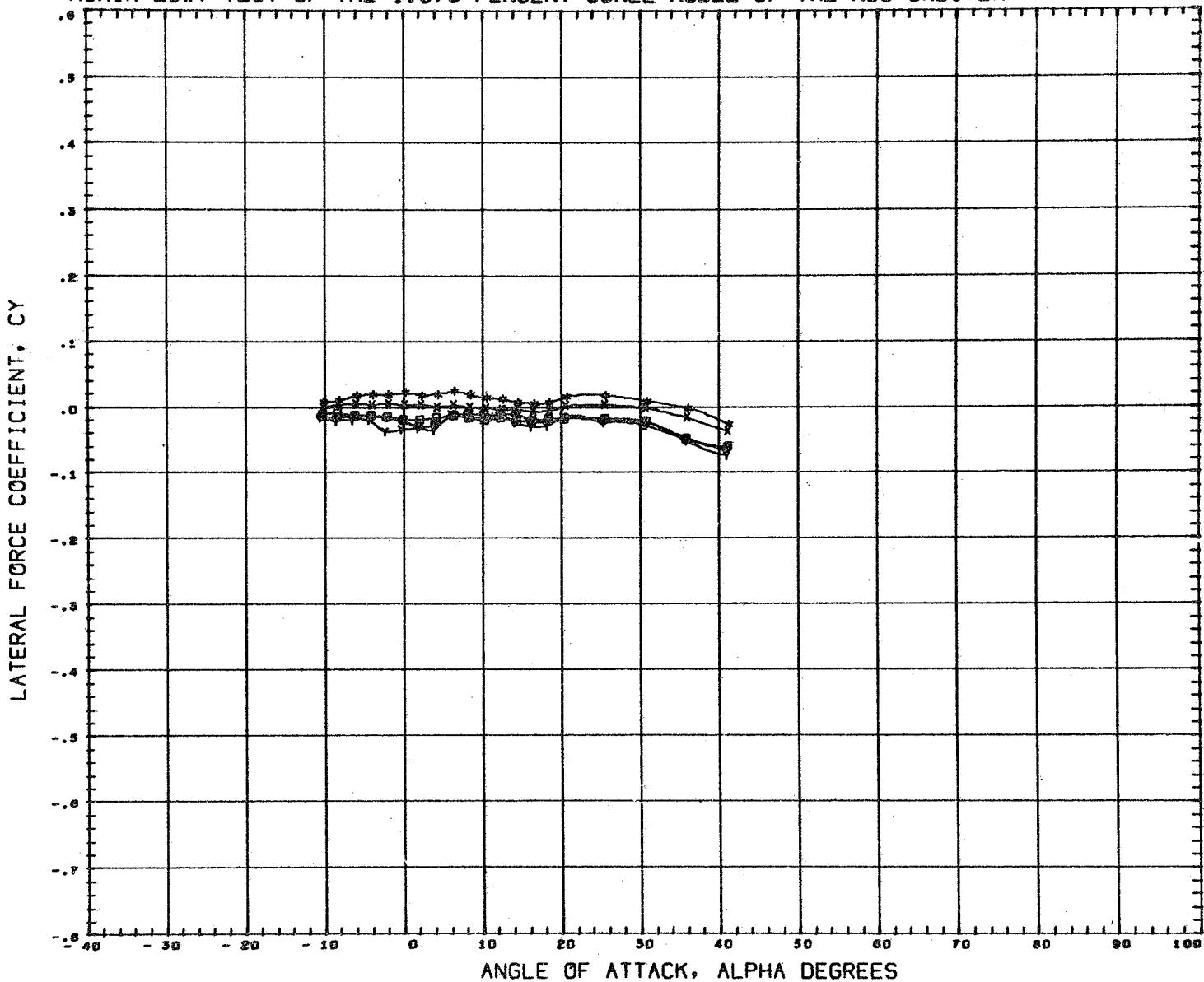


SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1
X	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1
G	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1
G	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1
Y	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1073)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
(BC1072)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(BC1070)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
(BC1071)	28 JUL 70		XMRP 1.38370X10 ⁺⁰⁰ IN.
(BC1074)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
			ZMRP 2.40000X10 ⁺⁰⁰ IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

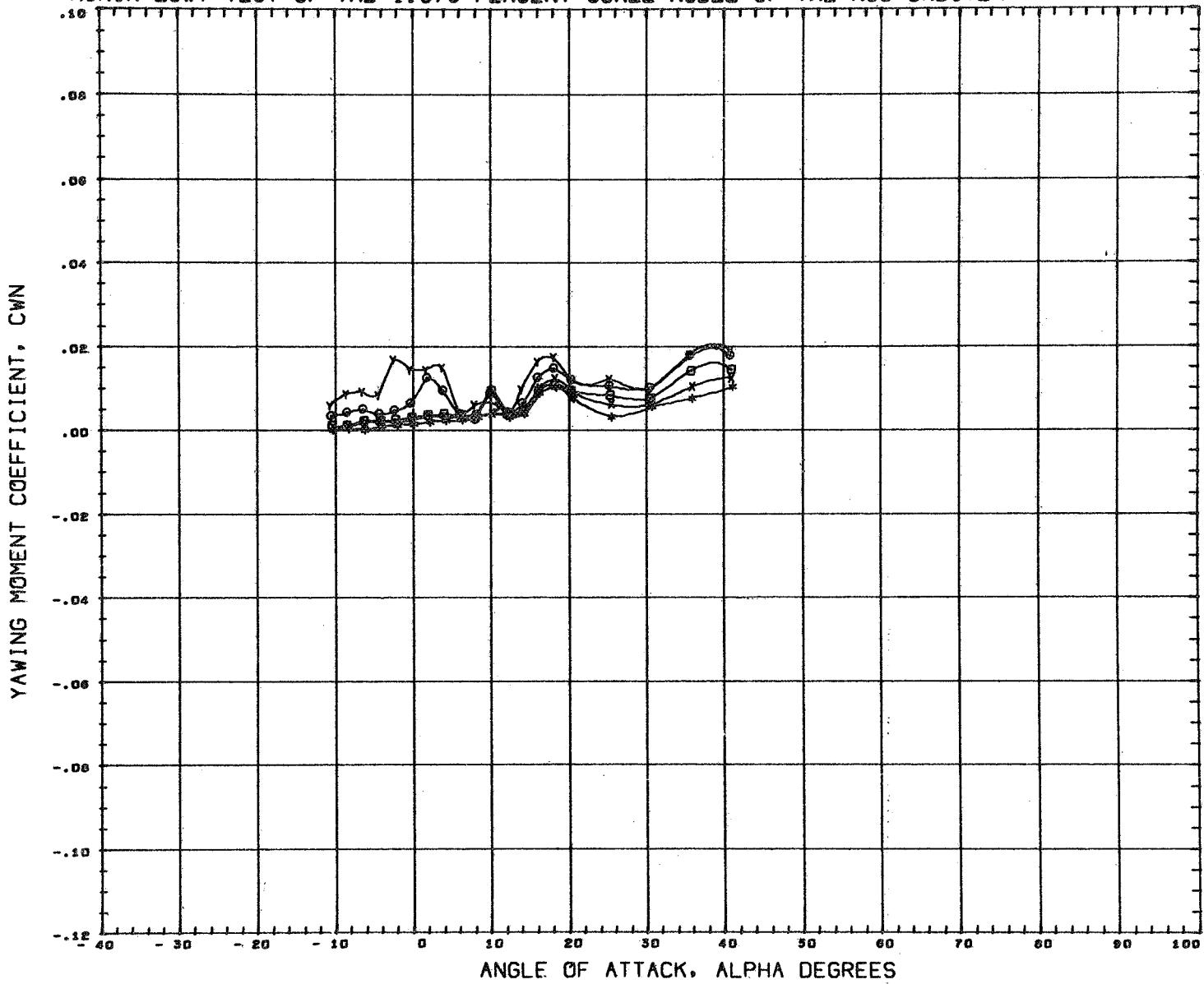


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 FC MOD S5 ORB B1H12V3W1	(BC1073)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ Sq.FT.
X	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1	(BC1072)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1	(BC1070)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
O	LSWT 223 1.875 FC MOD S5 ORB B1H12V3W1	(BC1071)	28 JUL 70		XNRP 1.38370X10 ⁺⁰¹ IN.
V	LSWT 223 1.875 FC MOD S5 ORB B1H12V3W1	(BC1074)	28 JUL 70		YNRP 0.00000X10 ⁺⁰⁰ IN.
					ZNRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

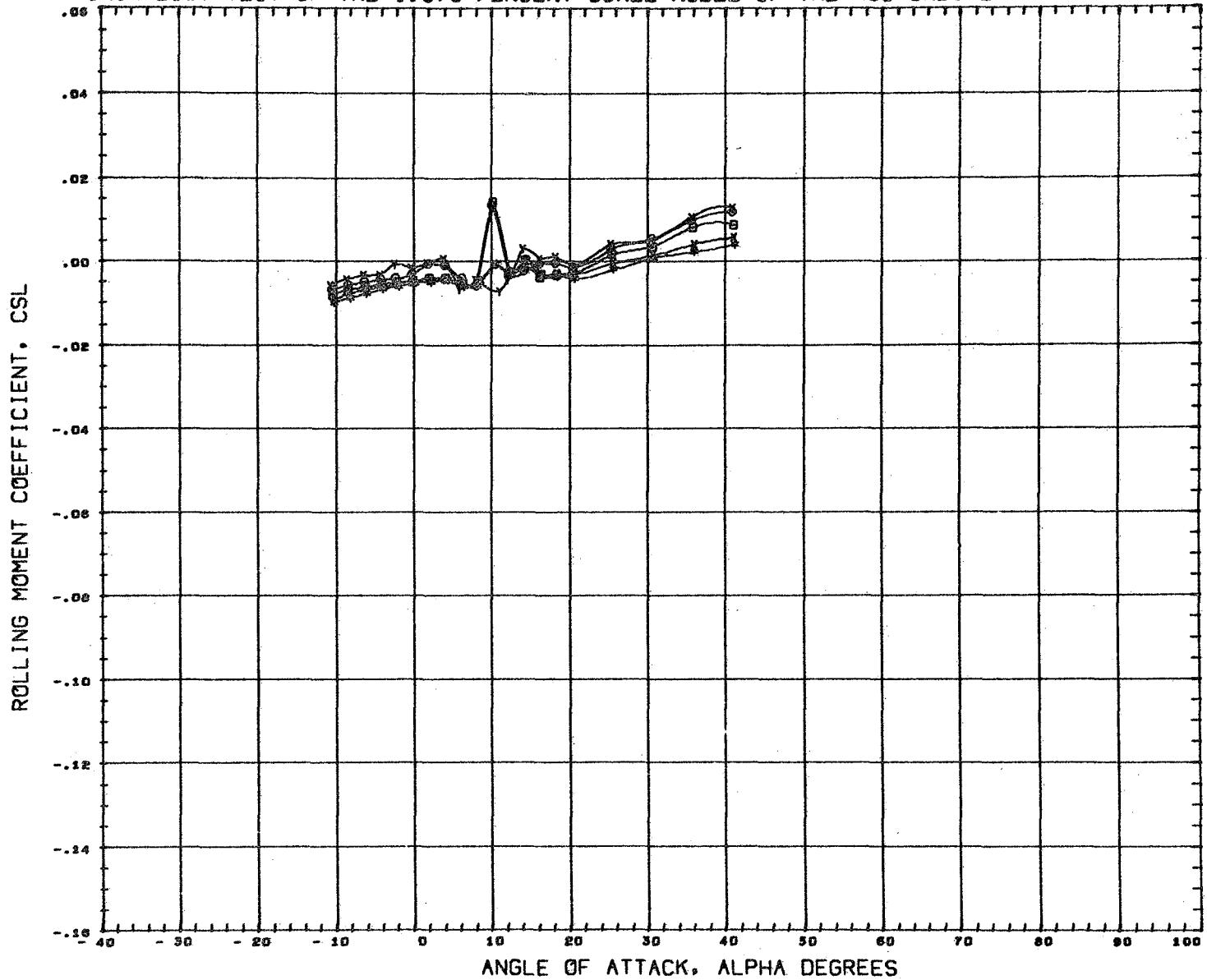


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1	(BC1073)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SL.FT.
X	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1	(BC1072)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1	(BC1070)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
G	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1	(BC1071)	28 JUL 70		XHRP 1.38370X10 ⁺⁰⁰ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1	(BC1074)	28 JUL 70		YHRP 0.00000X10 ⁺⁰⁰ IN.
					ZHRP 2.40000X10 ⁺⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

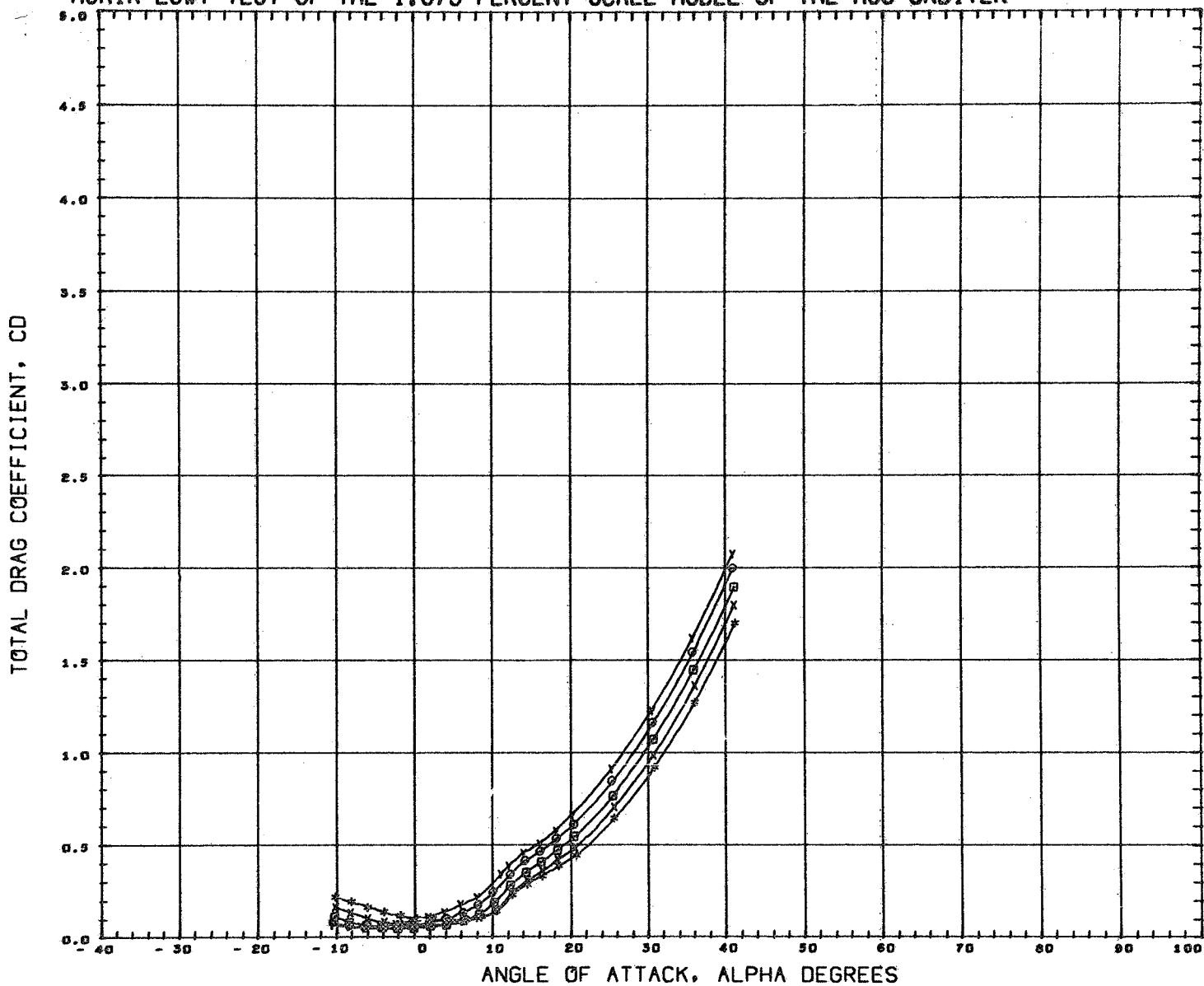
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1	(BC1073)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1	(BC1072)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
o	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1	(BC1070)	28 JUL 70		REFB 1.90000X10 ⁺⁰¹ FT.
o	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1	(BC1071)	28 JUL 70		XHRP 1.38370X10 ⁺⁰¹ IN.
y	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1	(BC1074)	28 JUL 70		YHRP 0.00000X10 ⁺⁰⁰ IN.
					ZHRP 2.40000X10 ⁺⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



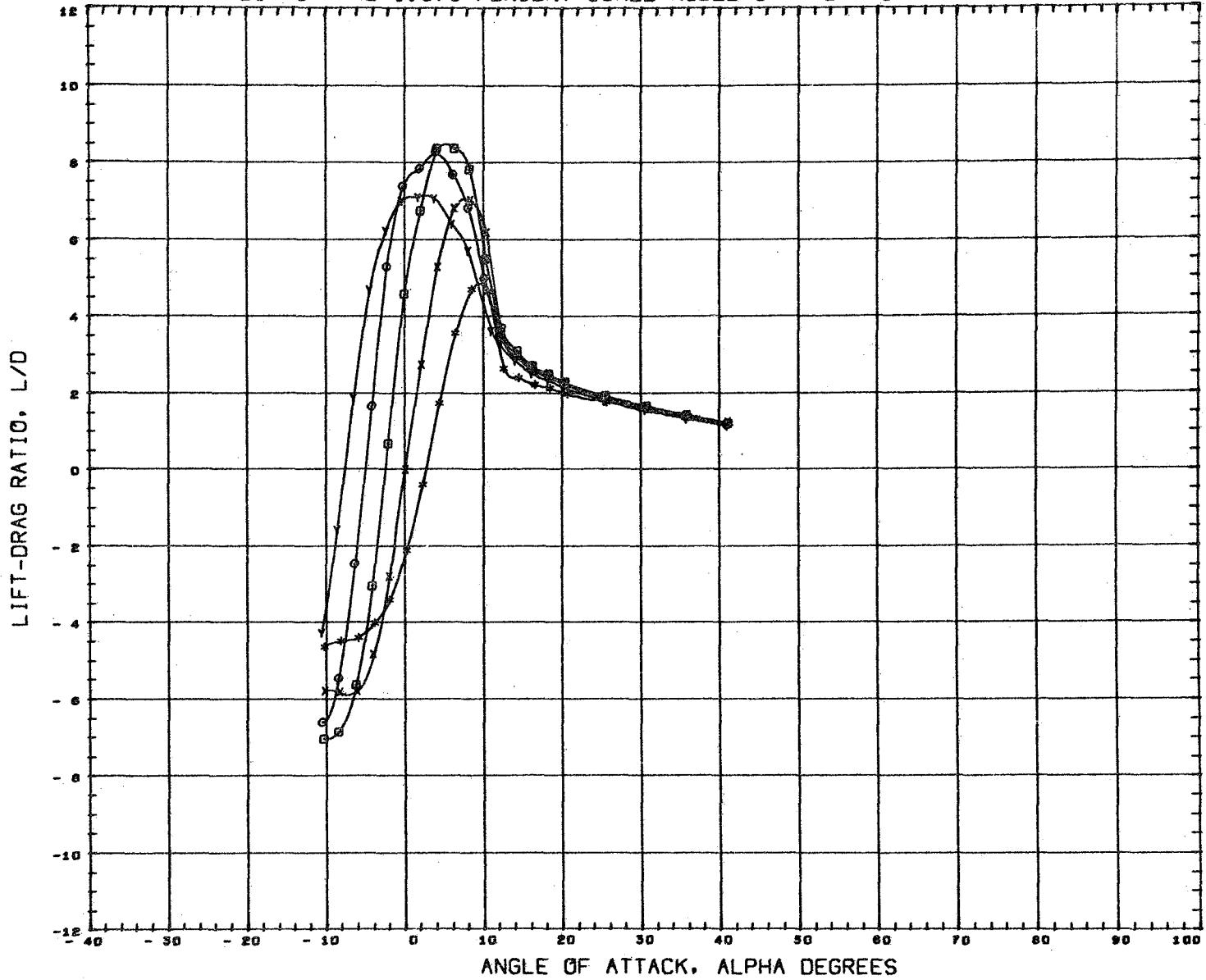
SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1
X	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1
G	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1
O	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1
Y	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1073)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ Sq.FT.
(BC1072)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(BC1070)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.
(BC1071)	28 JUL 70		XMRP 1.38370X10 ⁺⁰¹ IN.
(BC1074)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
			ZMRP 2.40000X10 ⁻⁰² IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

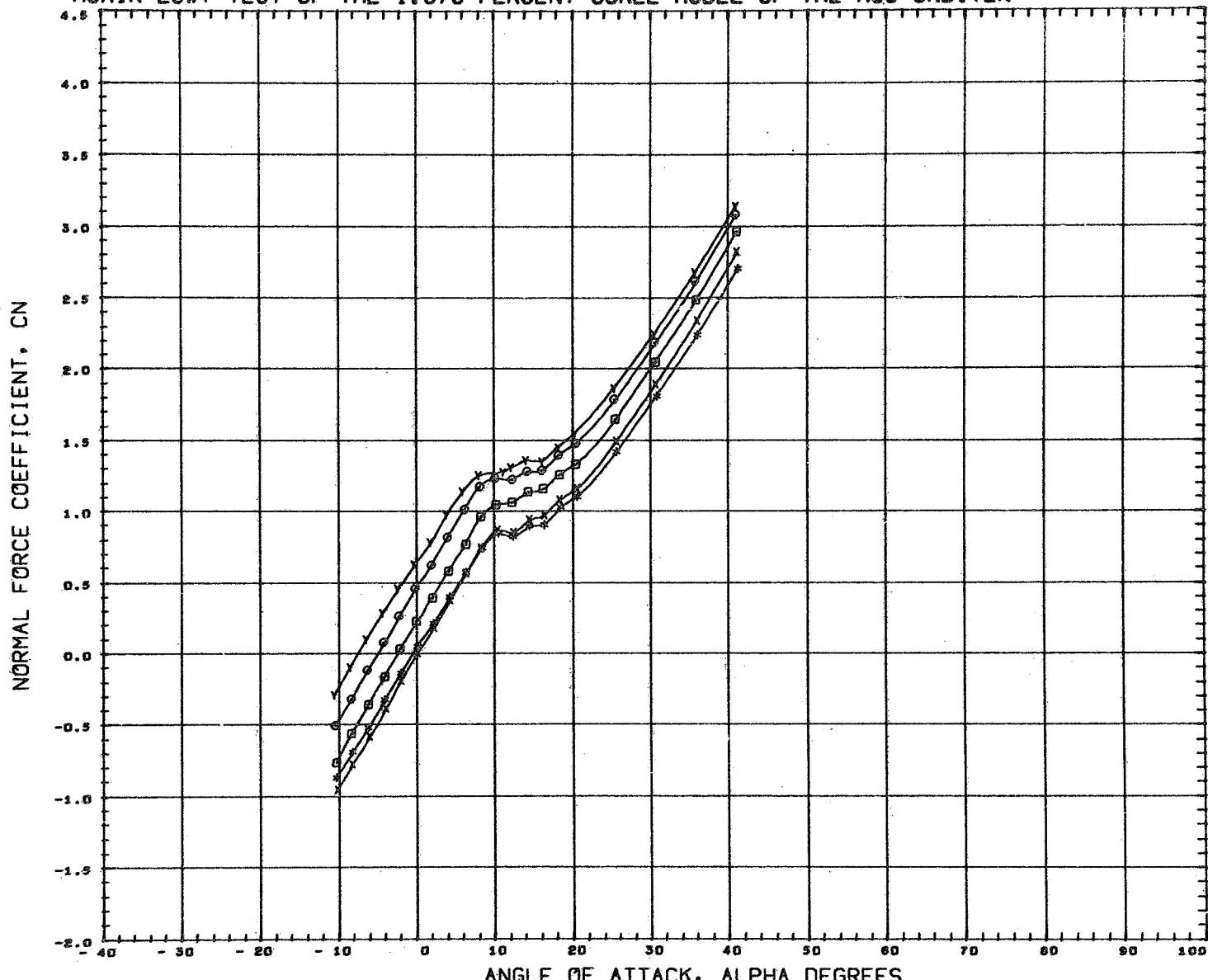


SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1
X	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1
G	LSWT 223 1.875 PC NOD S5 ORB B1H12V3W1
O	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1
Y	LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1073)	28 JUL 70	0.250	REFS 3.20800×10^{-01} SQ.FT.
(BC1072)	28 JUL 70		REFL 2.31700×10^{-00} FT.
(BC1070)	28 JUL 70		REFB $1.50000 \times 10^{+01}$ FT.
(BC1071)	28 JUL 70		XHRP $1.38370 \times 10^{+00}$ IN.
(BC1074)	28 JUL 70		YHRP $0.00000 \times 10^{+00}$ IN.
			ZHRP 2.40000×10^{-02} IN.
			SCALE 1.87500×10^{-02} SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



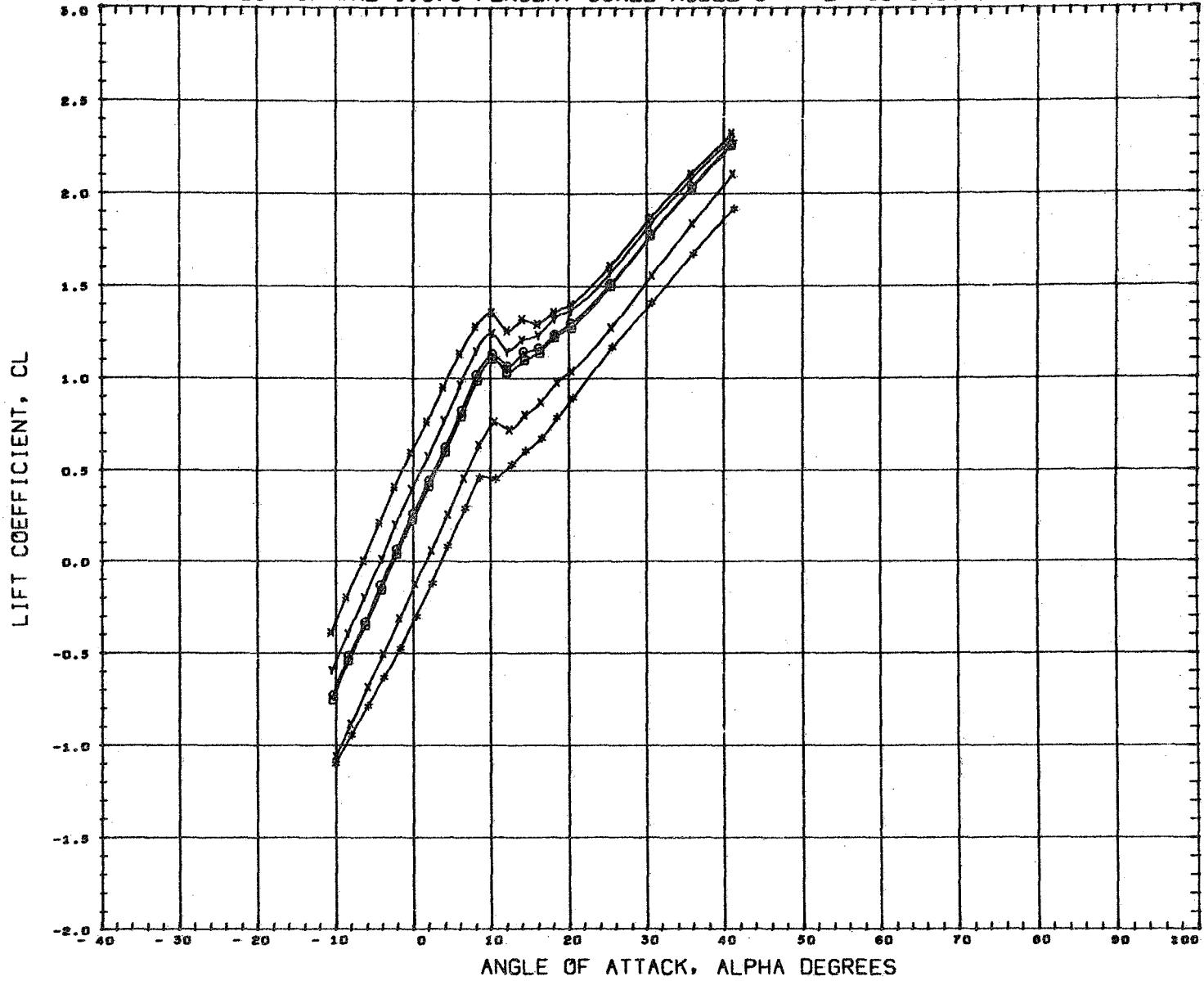
SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD).
X	LSWT 223 1.875 PC MOD S5 ORB. B1H12V3W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1H12V3W1
O	LSWT 223 1.875 PC MOD S5 ORB. B1H12V3W1
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H12V3W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(AC1FG5)	28 JUL 70	0.250	REFS 3.20800×10^{-01} SE.FT.
(AC1072)	28 JUL 70		REFL 2.31700×10^{-01} FT.
(AC1070)	28 JUL 70		REFB $1.50000 \times 10^{+00}$ FT.
(AC1071)	28 JUL 70		XNRP $1.38370 \times 10^{+01}$ IN.
(AC1074)	28 JUL 70		YNRP $0.00000 \times 10^{+00}$ IN.
			ZMRP 2.40000×10^{-02} IN.
			SCALE 1.87500×10^{-02} SCALE

REFERENCE FILE

SDY 37100150

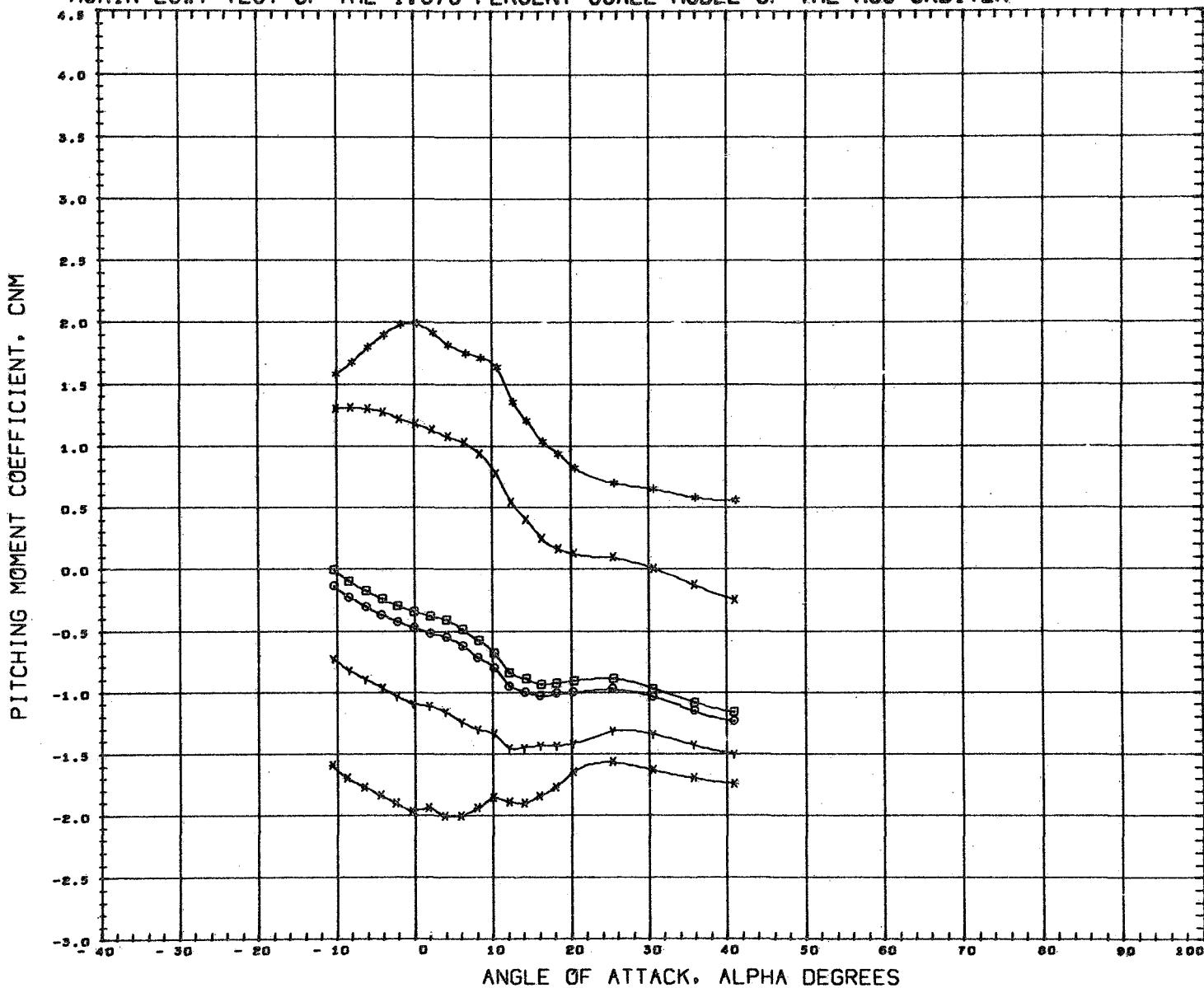
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G07)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SG.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G06)	28 JUL 70	0.250	REFL 2.31700X10 ⁺⁰⁰ FT.
█	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G05)	28 JUL 70	0.250	REFB 1.50000X10 ⁺⁰¹ FT.
○	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G02)	28 JUL 70	0.250	XNRP 1.38370X10 ⁺⁰¹ IN.
◆	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G03)	28 JUL 70	0.250	YNRP 0.00000X10 ⁺⁰⁰ IN.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G04)	28 JUL 70	0.250	ZNRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

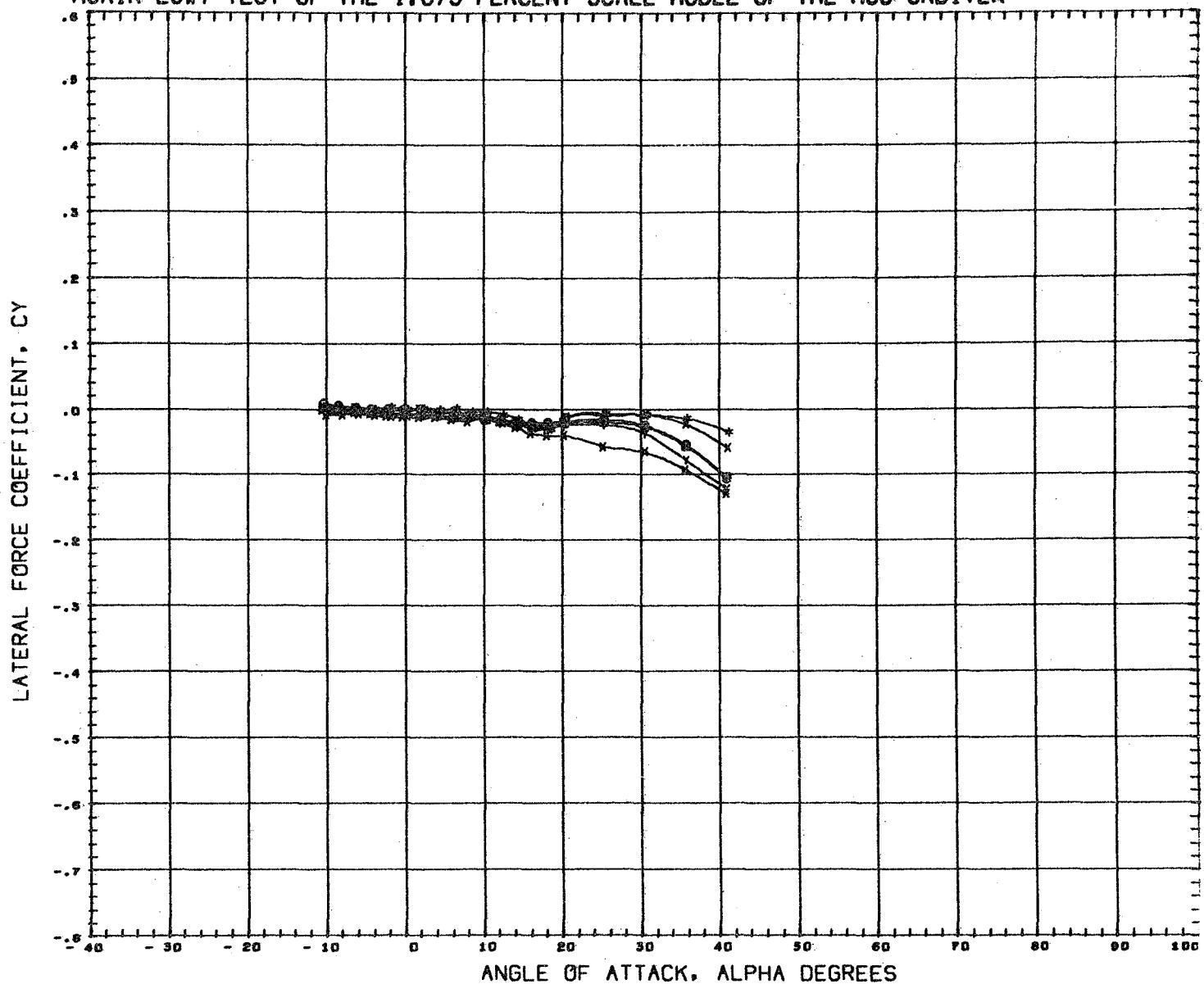
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G07)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
x	LSWT 223 1.875 PC MOD S5 ORB. B1H013V5W1	(BC1G06)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
g	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G05)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
o	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G02)	28 JUL 70		XNRP 1.38370X10 ⁺⁰¹ IN.
y	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G03)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
x	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G04)	28 JUL 70		ZMRP 2.40000X10 ⁻⁰² IN.

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

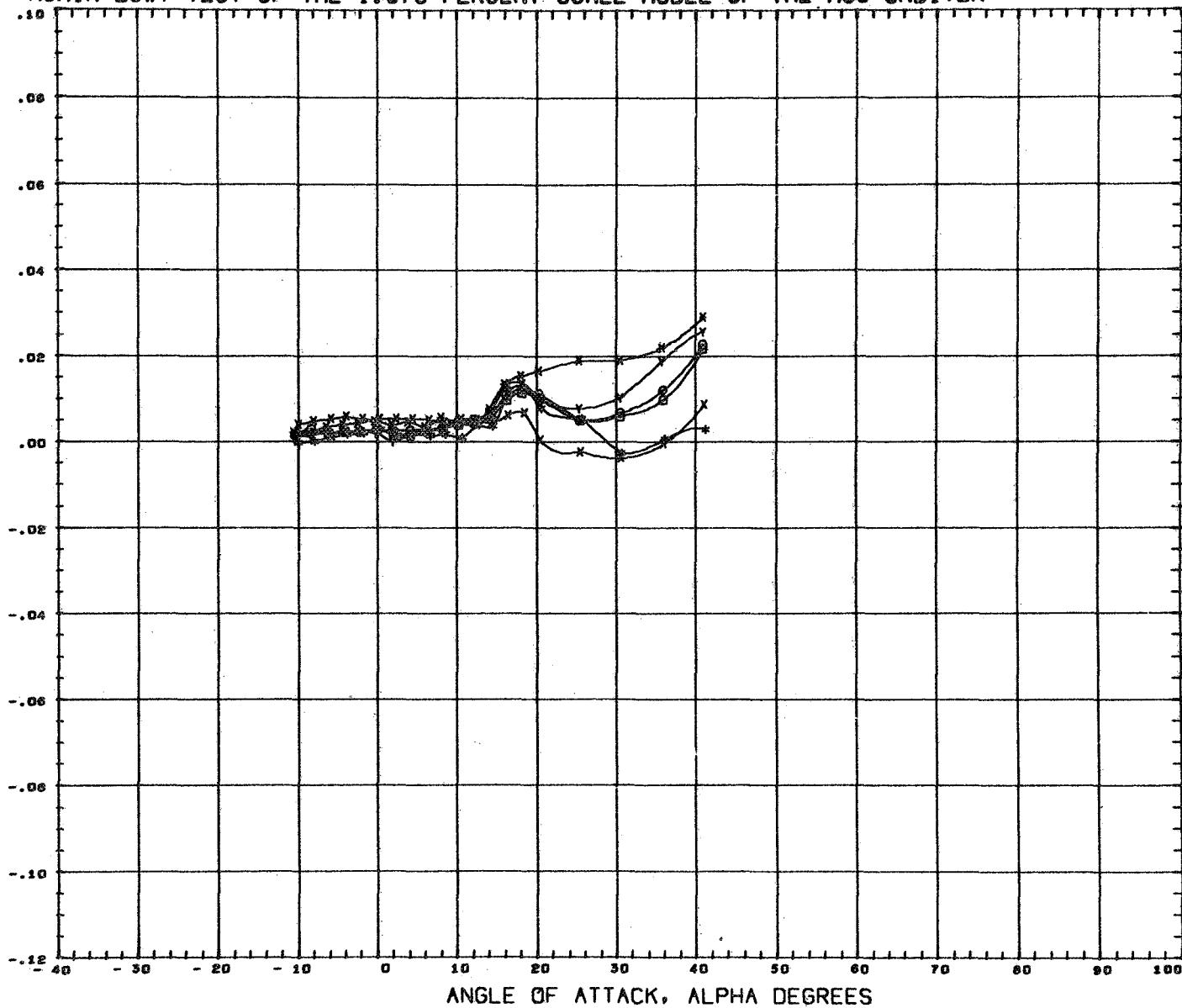


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 FC MOD S5 ORB. B1H013V3W1	(BC1G07)	28 JUL 70	0.250	REFS 3.20000X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 FC MOD S5 ORB. B1H013V3W1	(BC1G06)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G05)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
O	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G02)	28 JUL 70		XHRP 1.38370X10 ⁺⁰¹ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G03)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G04)	28 JUL 70		ZMRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, C_WN



SYMBOL CONFIGURATION DESCRIPTION

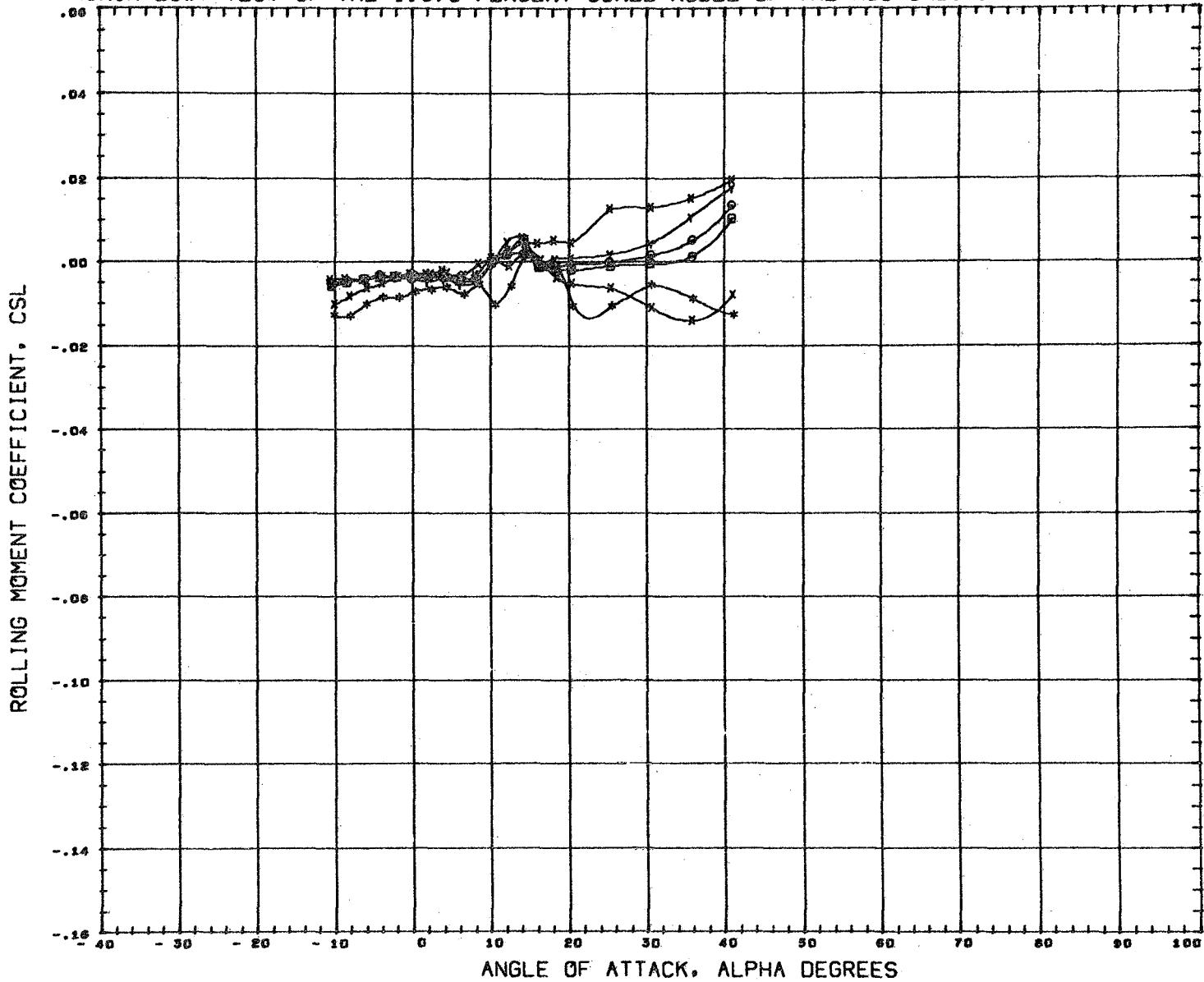
* LSWT 223 1.875 FC MOD S5 ORB. B1H013V3W1
 X LSWT 223 1.875 FC MOD S5 ORB. B1H013V3W1
 G LSWT 223 1.875 FC MOD S5 ORB. B1H013V3W1
 G LSWT 223 1.875 FC MOD S5 ORB. B1H013V3W1
 Y LSWT 223 1.875 FC MOD S5 ORB. B1H013V3W1
 X LSWT 223 1.875 FC MOD S5 ORB. B1H013V3W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1G07)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
(BC1G06)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(BC1G05)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.
(BC1G02)	28 JUL 70		XHRP 1.38370X10 ⁺⁰¹ IN.
(BC1G03)	28 JUL 70		YHRP 0.00000X10 ⁺⁰⁰ IN.
(BC1G04)	28 JUL 70		ZHRP 2.40000X10 ⁻⁰² IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

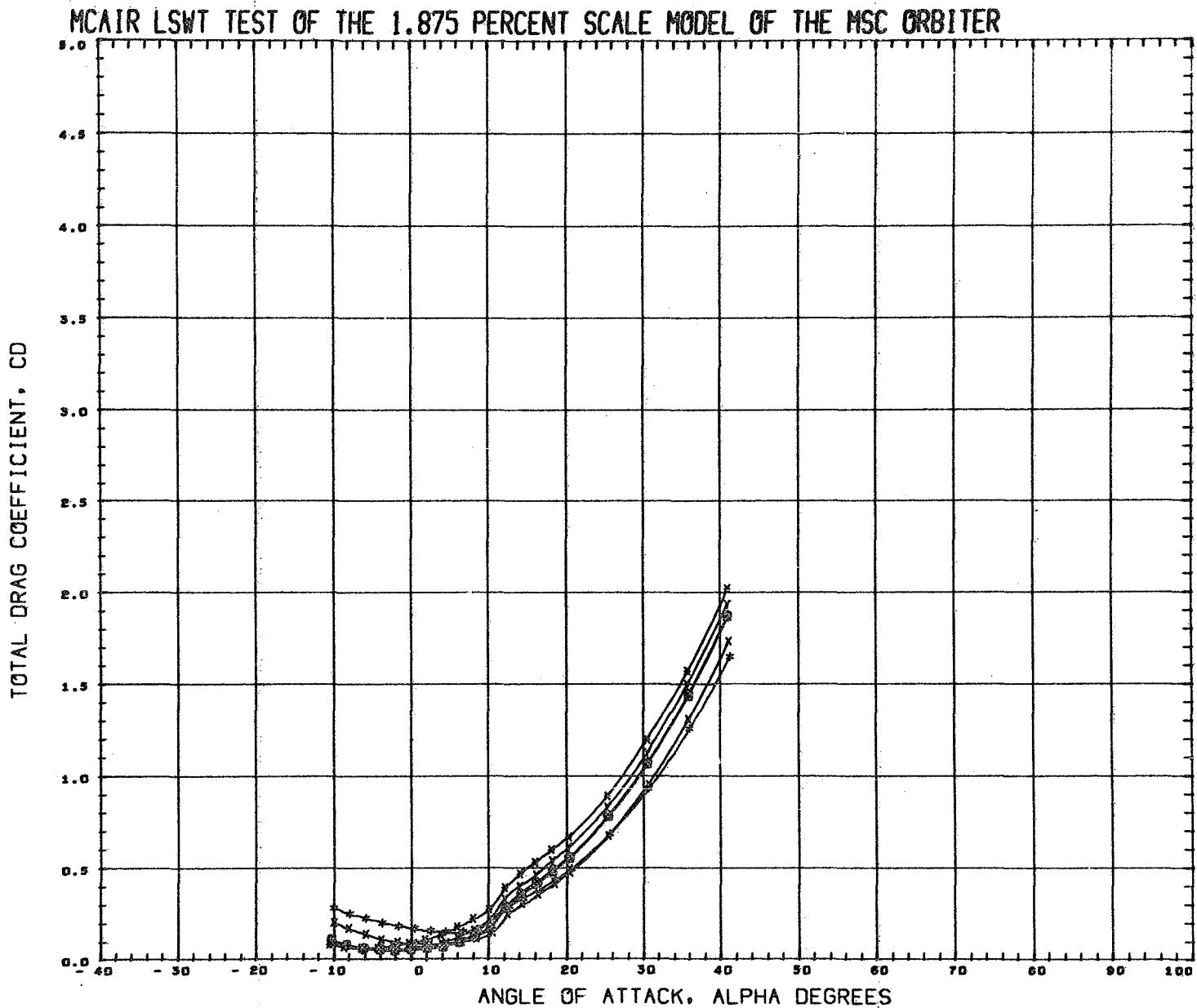
SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G07)	28 JUL 70	0.250	REFS 3.20000X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G06)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G05)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G02)	28 JUL 70		XMRP 1.36370X10 ⁺⁰⁰ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G03)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G04)	28 JUL 70		ZMRP 2.40000X10 ⁻⁰² IN.

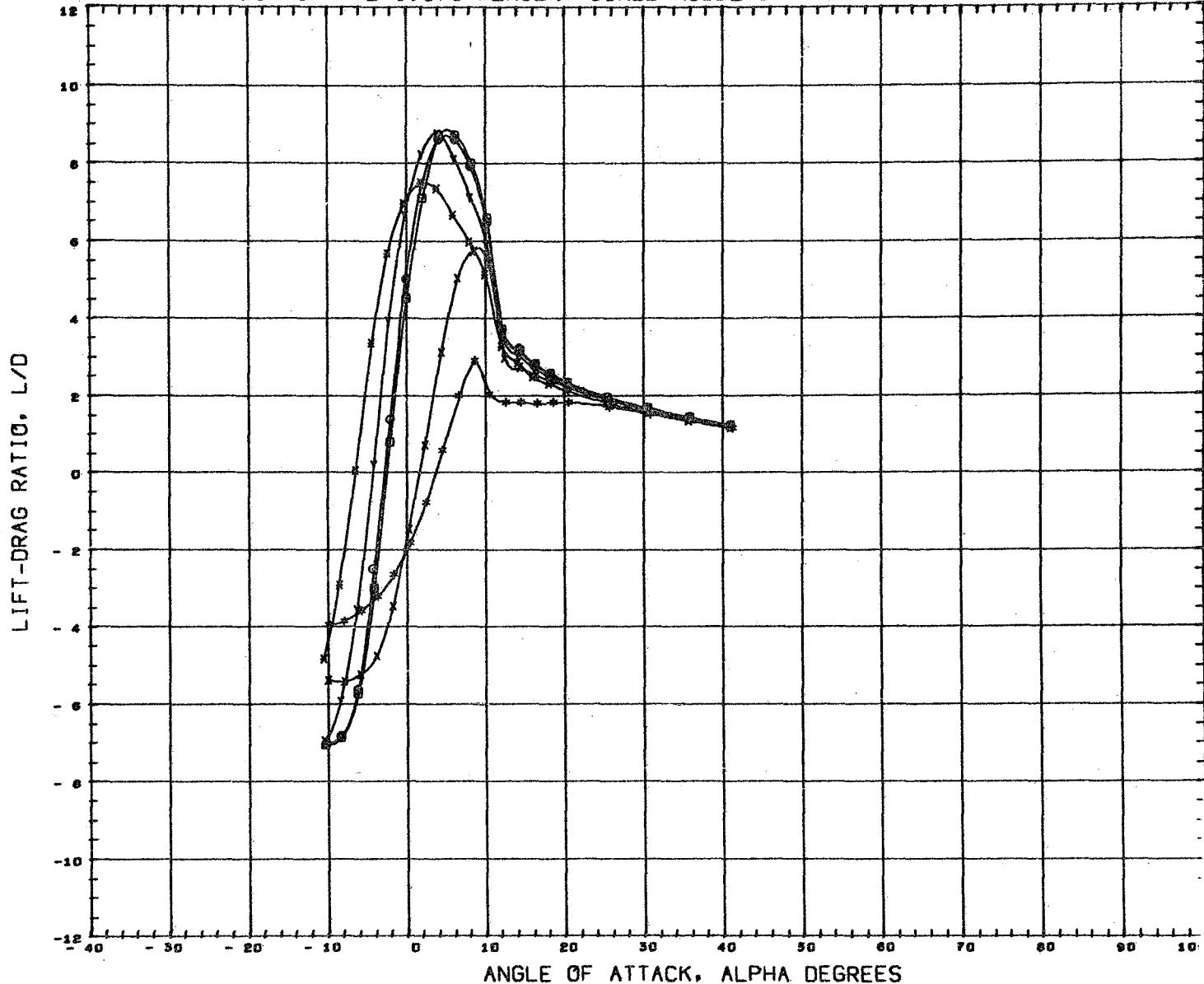
REFERENCE FILE SDY 37100150



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1607)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1606)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1605)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1602)	28 JUL 70		XHRP 1.38370X10 ⁺⁰⁰ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1603)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1604)	28 JUL 70		ZMRP 2.40000X10 ⁻⁰² IN.

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

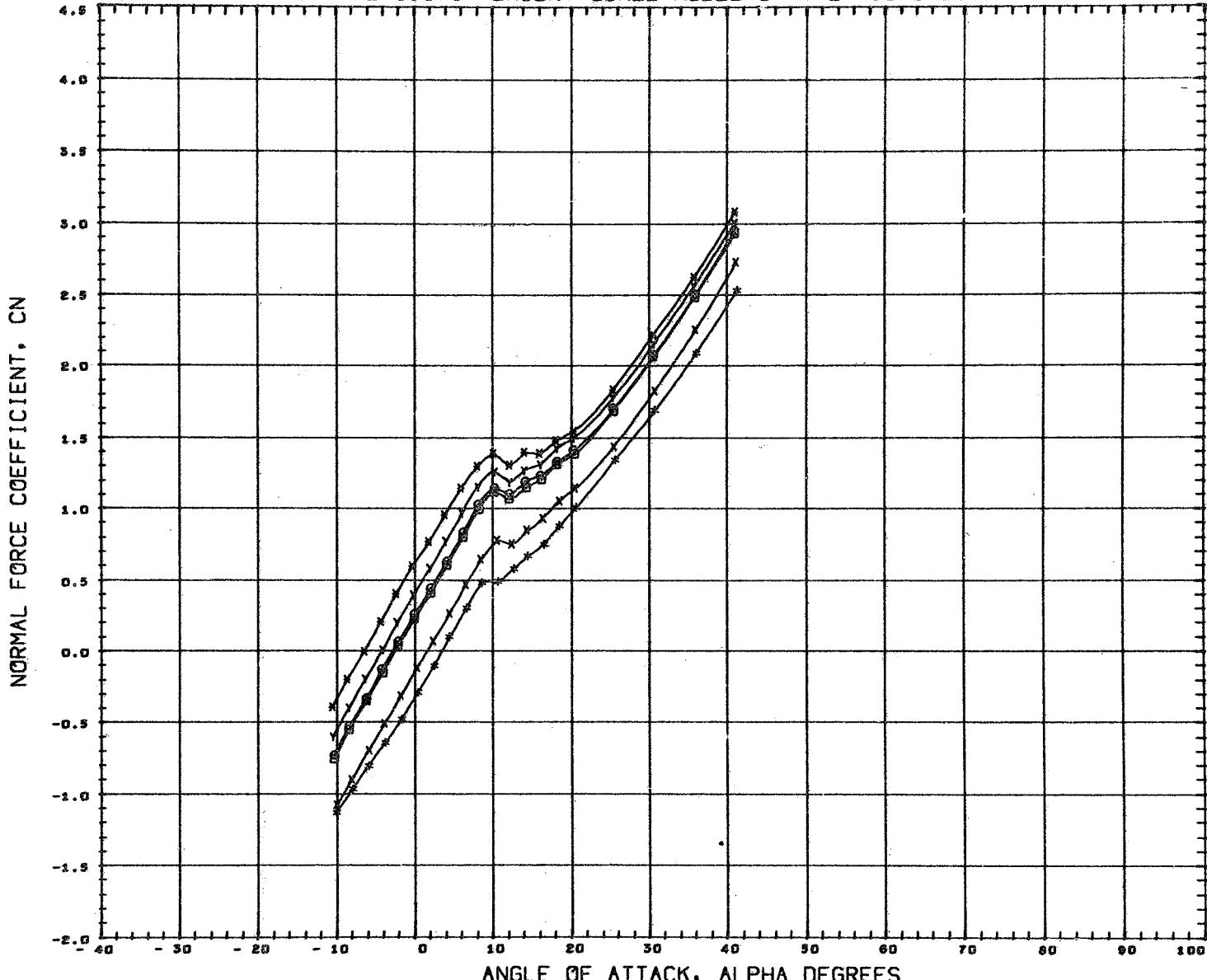


SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1
x	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1
o	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1
■	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1
◆	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1
y	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1
x	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1607)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT
(BC1606)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
(BC1605)	28 JUL 70		REFB 1.90000X10 ⁺⁰⁰ FT.
(BC1602)	28 JUL 70		XHRF 1.38370X10 ⁺⁰⁰ IN.
(BC1603)	28 JUL 70		YHRP 0.00000X10 ⁺⁰⁰ IN.
(BC1604)	28 JUL 70		ZHRP 2.40000X10 ⁺⁰⁰ IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1
X	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1
O	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1
X	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1

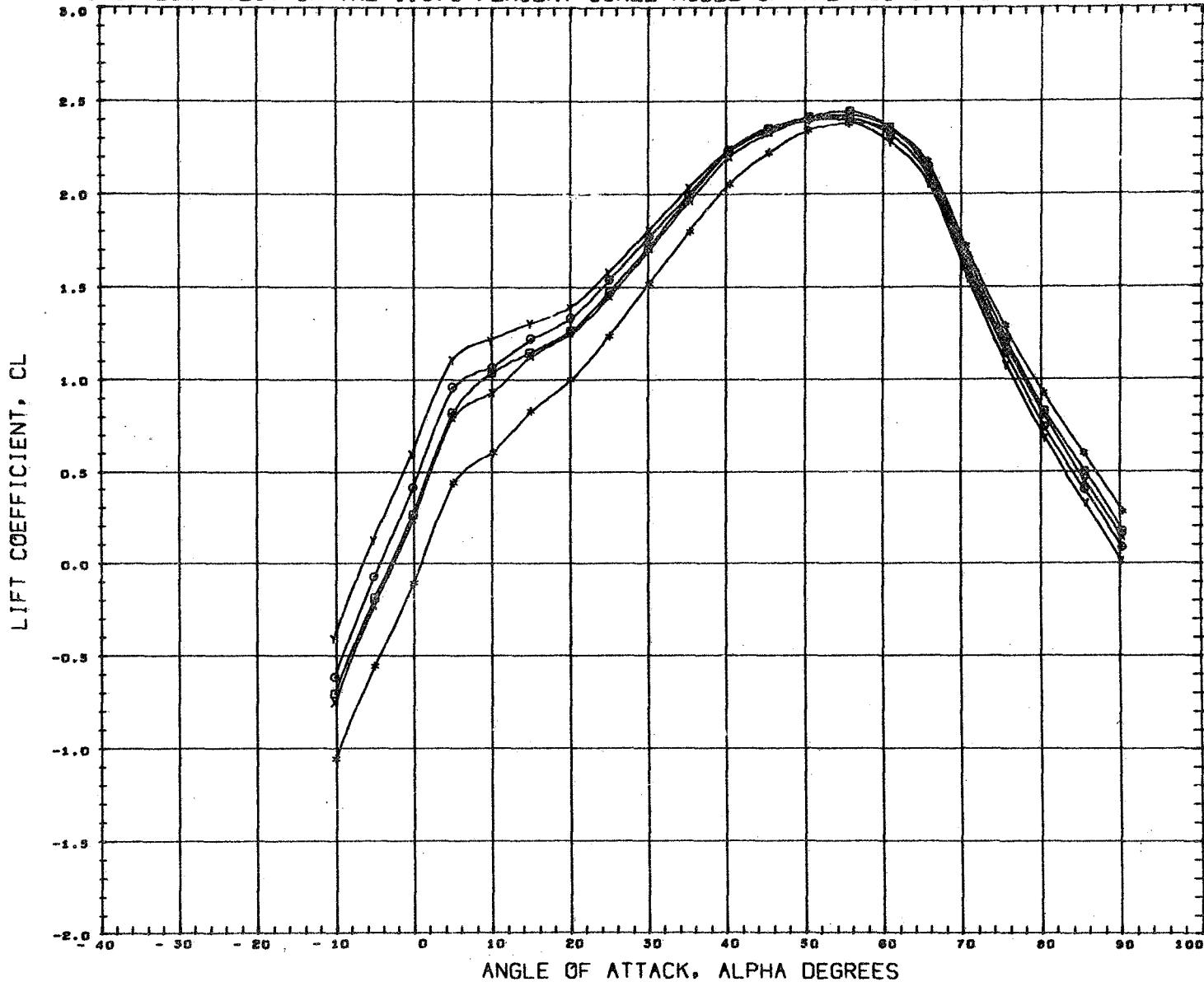
DATA SET	DATE	MACH
(AC1G07)	28 JUL 70	0.250
(AC1G06)	28 JUL 70	
(AC1G05)	28 JUL 70	
(AC1G02)	28 JUL 70	
(AC1G03)	28 JUL 70	
(AC1G04)	28 JUL 70	

REFERENCE INFORMATION
REFS 3.20800X10 ⁻⁰¹ Sq.FT.
REFL 2.31700X10 ⁺⁰⁰ FT.
REFB 1.50000X10 ⁺⁰⁰ FT.
XMRP 1.38370X10 ⁺⁰¹ IN.
YMRP 0.00000X10 ⁺⁰⁰ IN.
ZMRP 2.40000X10 ⁻⁰² IN.
SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
X	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
O	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

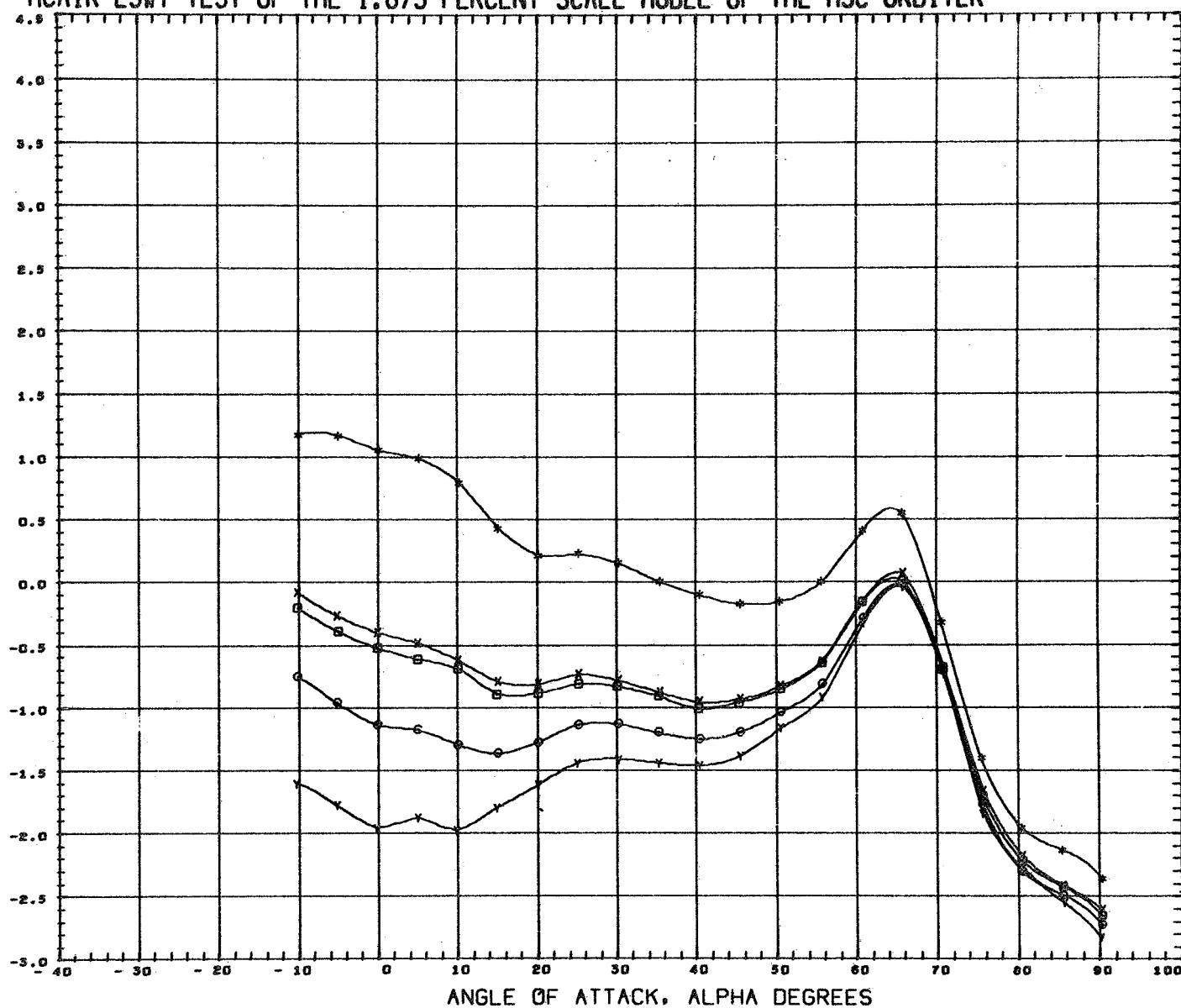
DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1H12)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
(BC1H10)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(BC1H01)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
(BC1H06)	28 JUL 70		XHRF 1.38370X10 ⁺⁰⁰ IN.
(BC1H07)	28 JUL 70		YHRF 0.00000X10 ⁺⁰⁰ IN.
			ZHRF 2.40000X10 ⁺⁰⁰ IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CNM



SYMBOL CONFIGURATION DESCRIPTION

* LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
 X LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
 G LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
 O LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
 Y LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

DATA SET DATE MACH

(BC1H12) 28 JUL 70 0.170
 (BC1H10) 28 JUL 70
 (BC1H01) 28 JUL 70
 (BC1H06) 28 JUL 70
 (BC1H07) 28 JUL 70

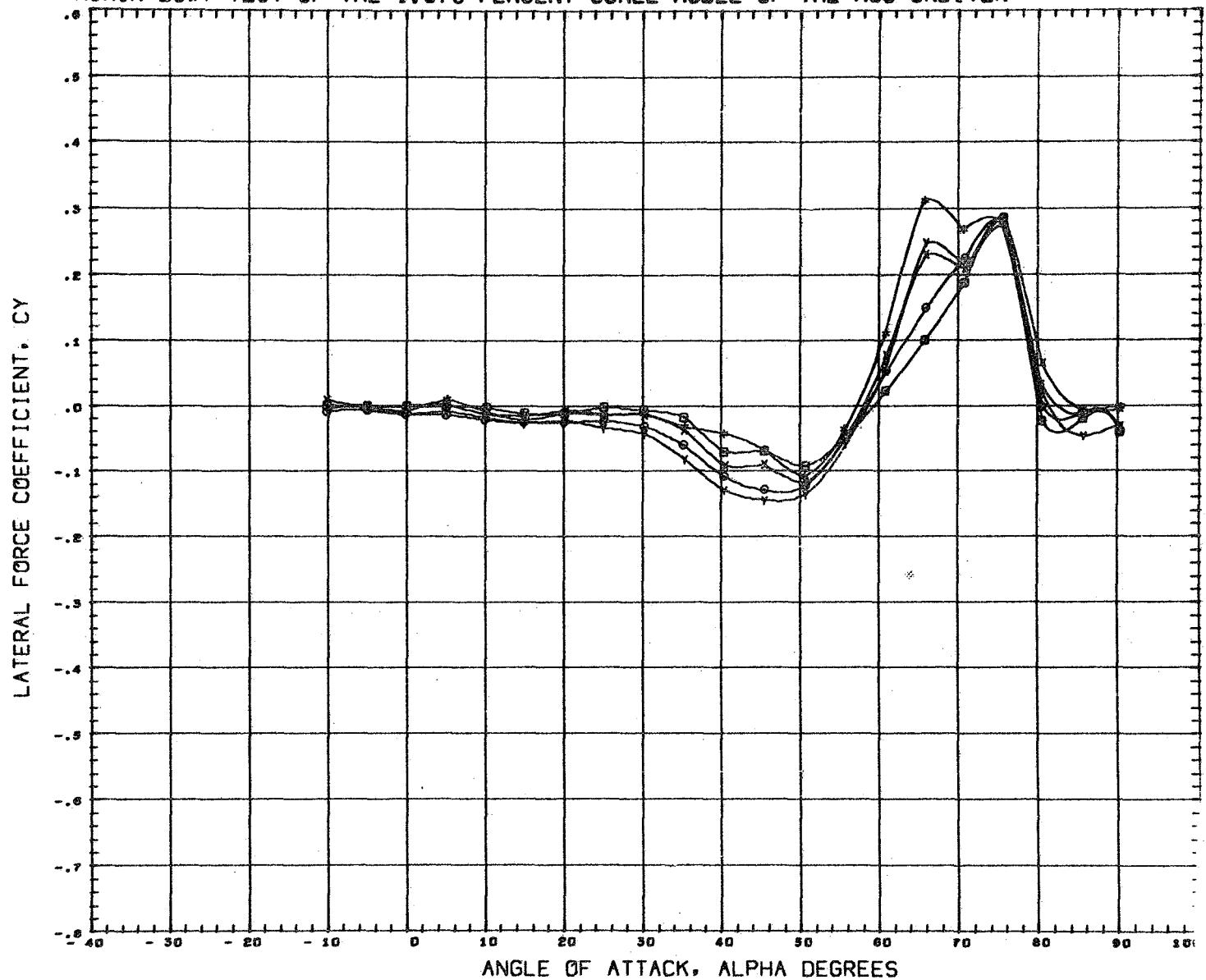
REFERENCE INFORMATION

REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁺⁰⁰ FT.
 REFB 1.50000X10⁺⁰¹ FT.
 XMRP 1.38370X10⁺⁰¹ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁺⁰⁰ IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

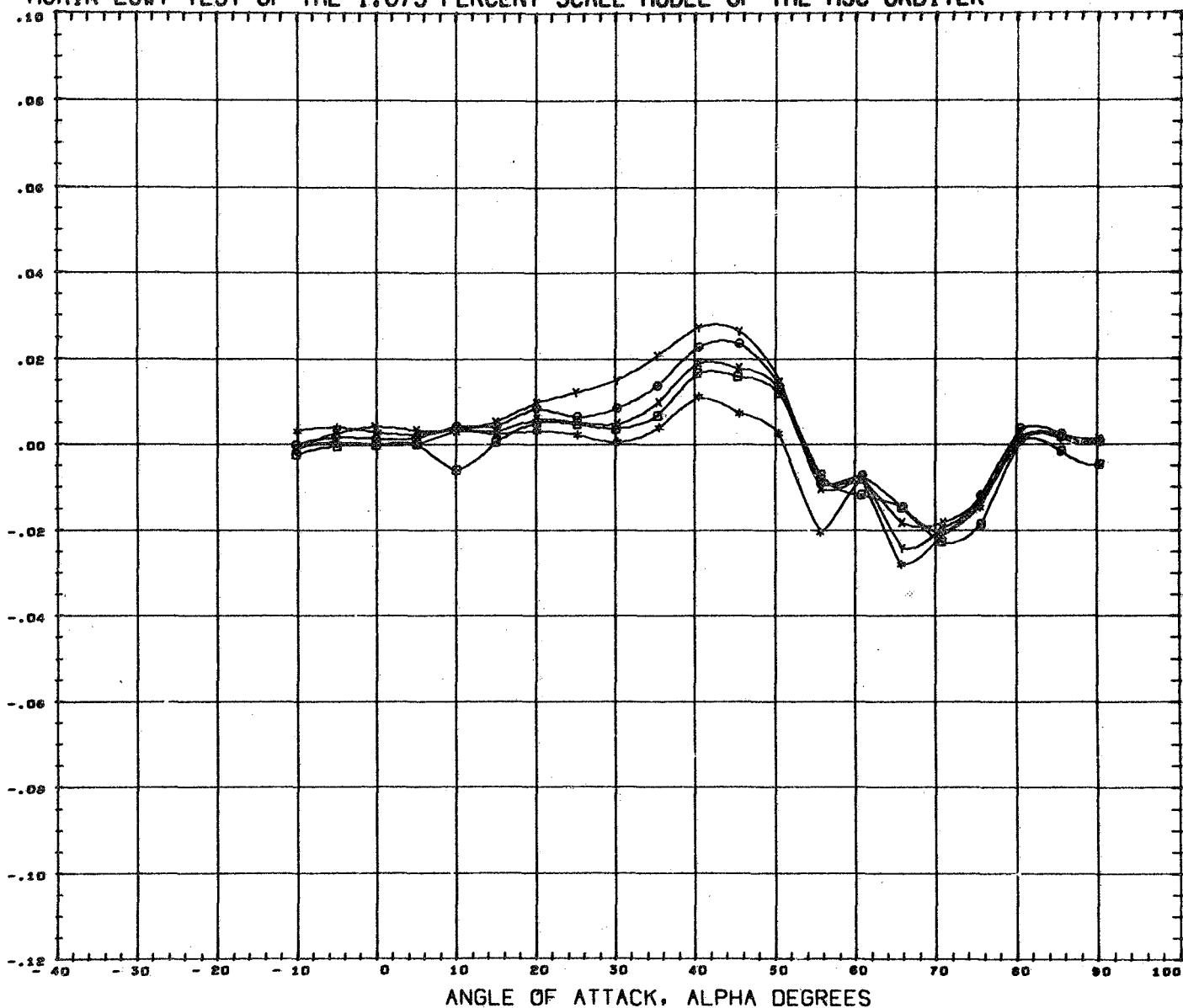


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 225 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H12)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰¹ Sq.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H10)	28 JUL 70	0.170	REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H01)	28 JUL 70	0.170	REFB 1.50000X10 ⁺⁰¹ FT.
O	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H06)	28 JUL 70	0.170	XHRP 1.38370X10 ⁺⁰⁰ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H07)	28 JUL 70	0.170	YHRP 0.00000X10 ⁺⁰⁰ IN.
					ZHRP 2.40000X10 ⁺⁰⁰ IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, CWN



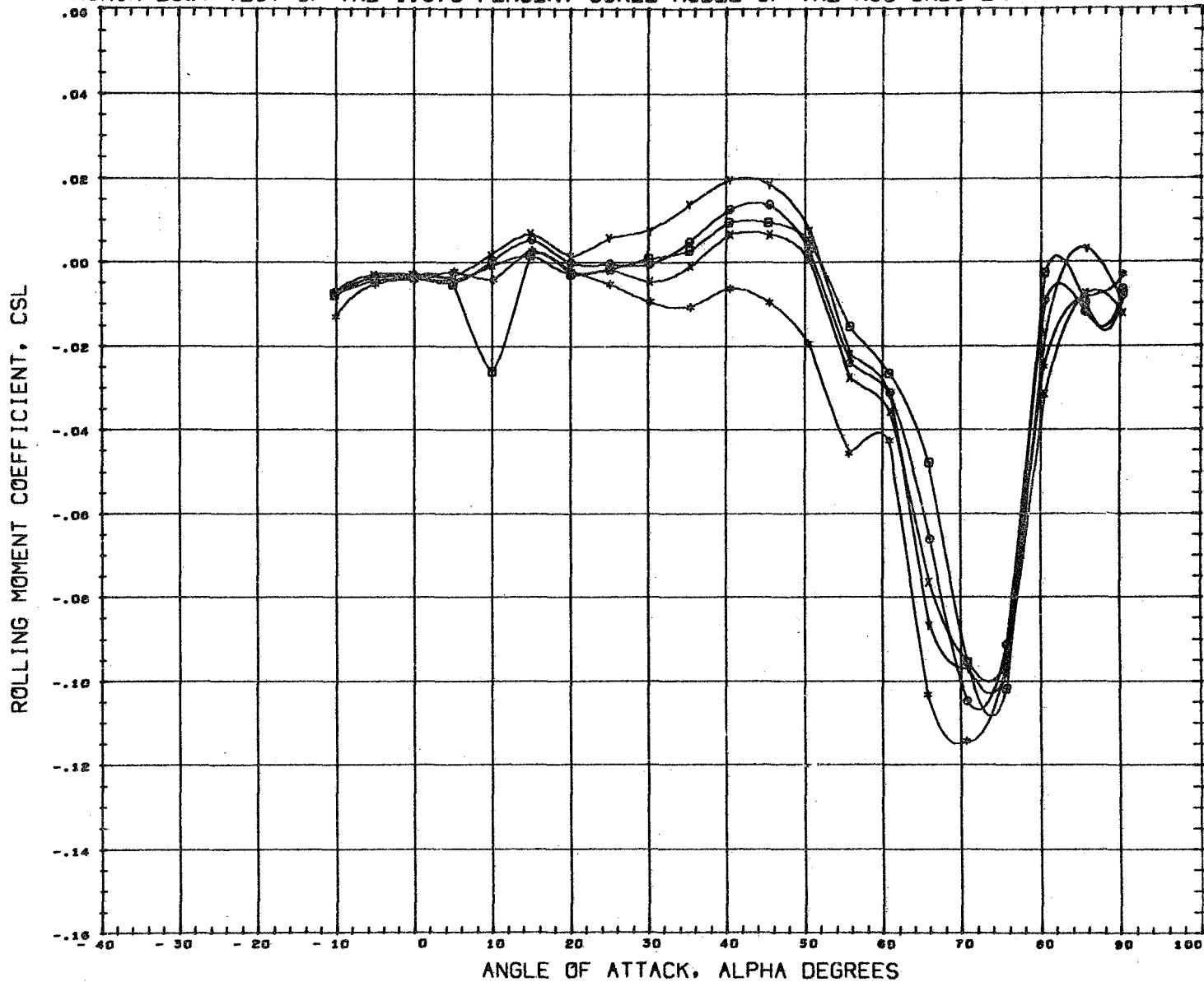
SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 FC MOD S5 ORB. B1H1513V3W1
 X LSWT 223 1.875 FC MOD S5 ORB. B1H1513V3W1
 G LSWT 223 1.875 FC MOD S5 ORB. B1H1513V3W1
 Y LSWT 223 1.875 FC MOD S5 ORB. B1H1513V3W1

DATA SET DATE MACH REFERENCE INFORMATION
 (BC1H2) 28 JUL 70 0.170 REFS 3.20800X10-01 SQ.FT.
 (BC1H10) 28 JUL 70 REFL 2.31700X10-01 FT.
 (BC1H01) 28 JUL 70 REFB 1.50000X10+00 FT.
 (BC1H06) 28 JUL 70 XMRF 1.38370X10+01 IN.
 (BC1H07) 28 JUL 70 YMRF 0.00000X10+00 IN.
 ZMRF 2.40000X10+00 IN.
 SCALE 1.87500X10-02 SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



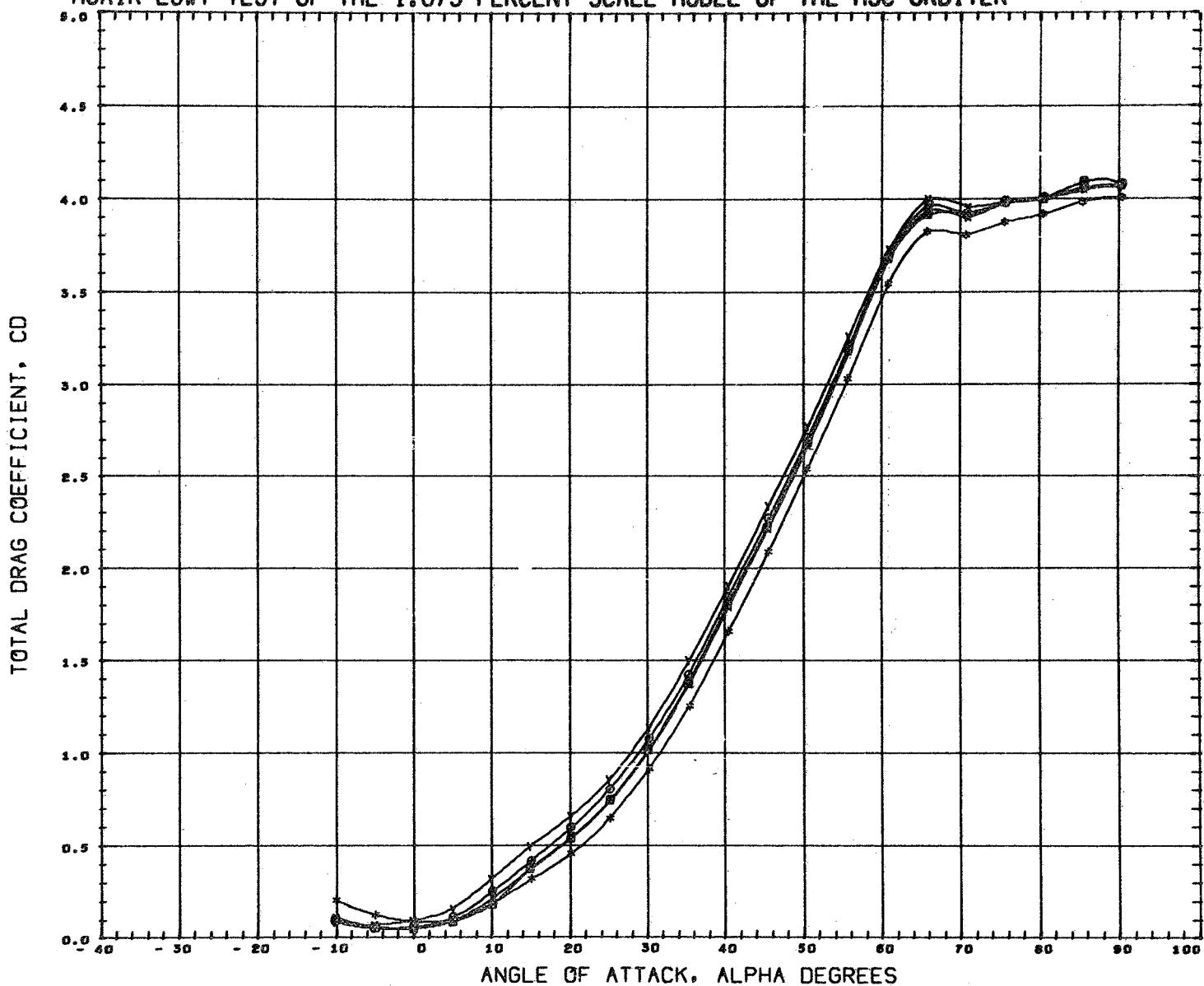
SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
X	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
O	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1H12)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰¹ SR.FT.
(BC1H10)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(BC1H01)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
(BC1H06)	28 JUL 70		XHRP 1.38370X10 ⁺⁰¹ IN.
(BC1H07)	28 JUL 70		YHRP 0.00000X10 ⁺⁰⁰ IN.
			ZHRP 2.40000X10 ⁺⁰⁰ IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

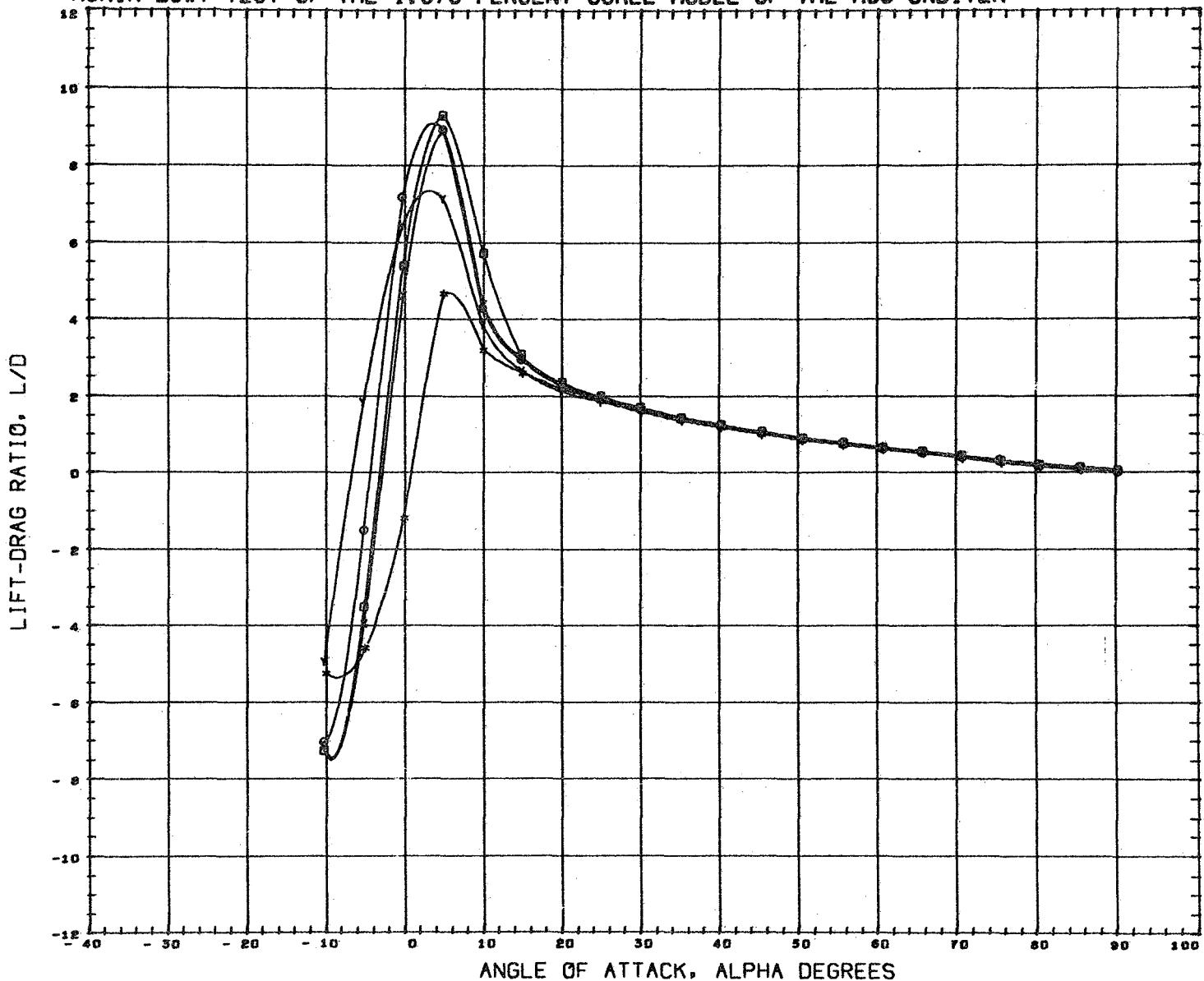


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H12)	28 JUL 70	0.170	REFS 3.20600X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H10)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H01)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
O	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H06)	28 JUL 70		XMRP 1.38370X10 ⁺⁰⁰ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H07)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
					ZMRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

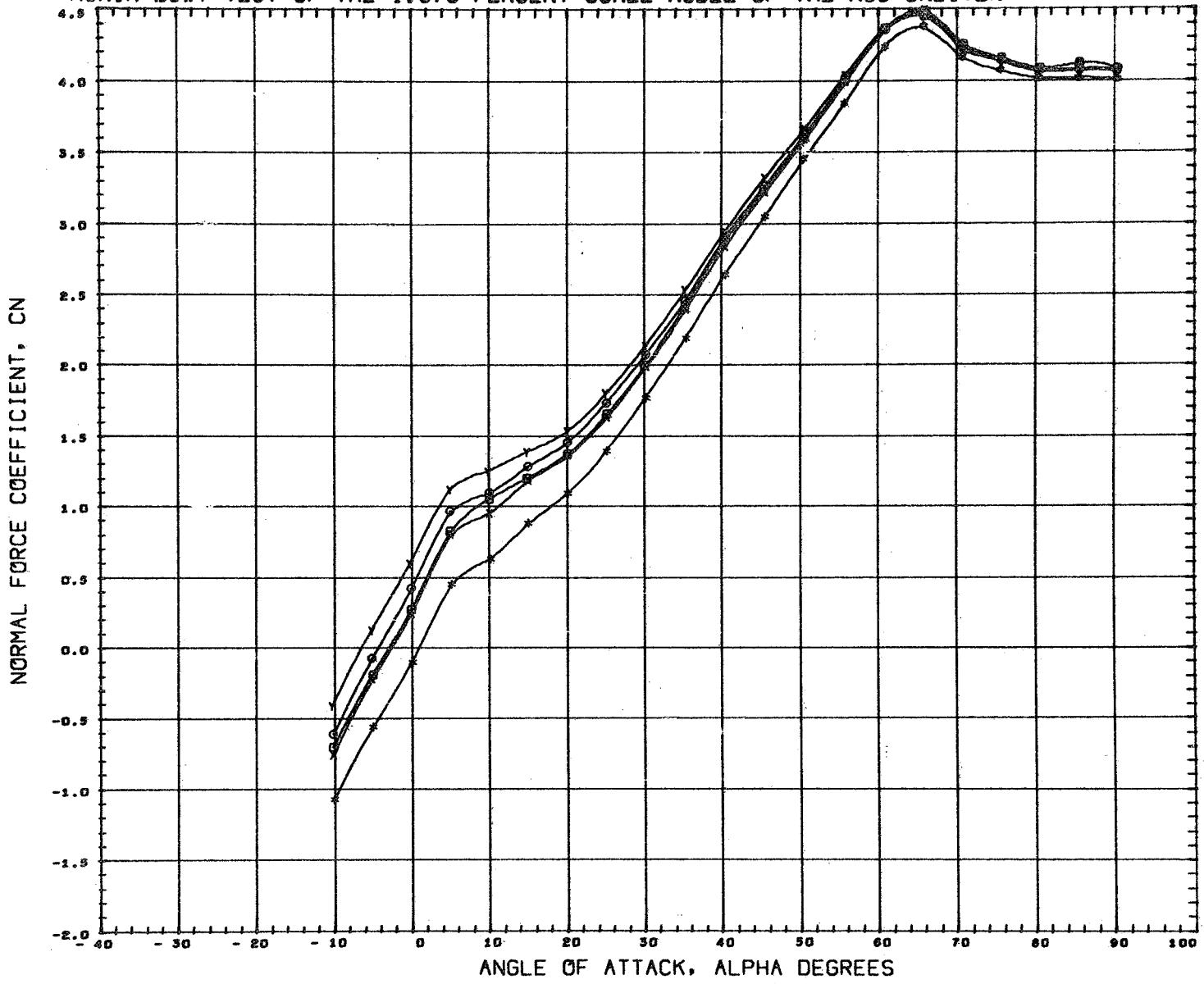


SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
x	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
o	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
□	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
◊	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1H12)	2d JUL 70	0.170	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
(BC1H10)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(BC1H01)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
(BC1H06)	28 JUL 70		XMRP 1.38370X10 ⁺⁰¹ IN.
(BC1H07)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
			ZMRP 2.40000X10 ⁻⁰² IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



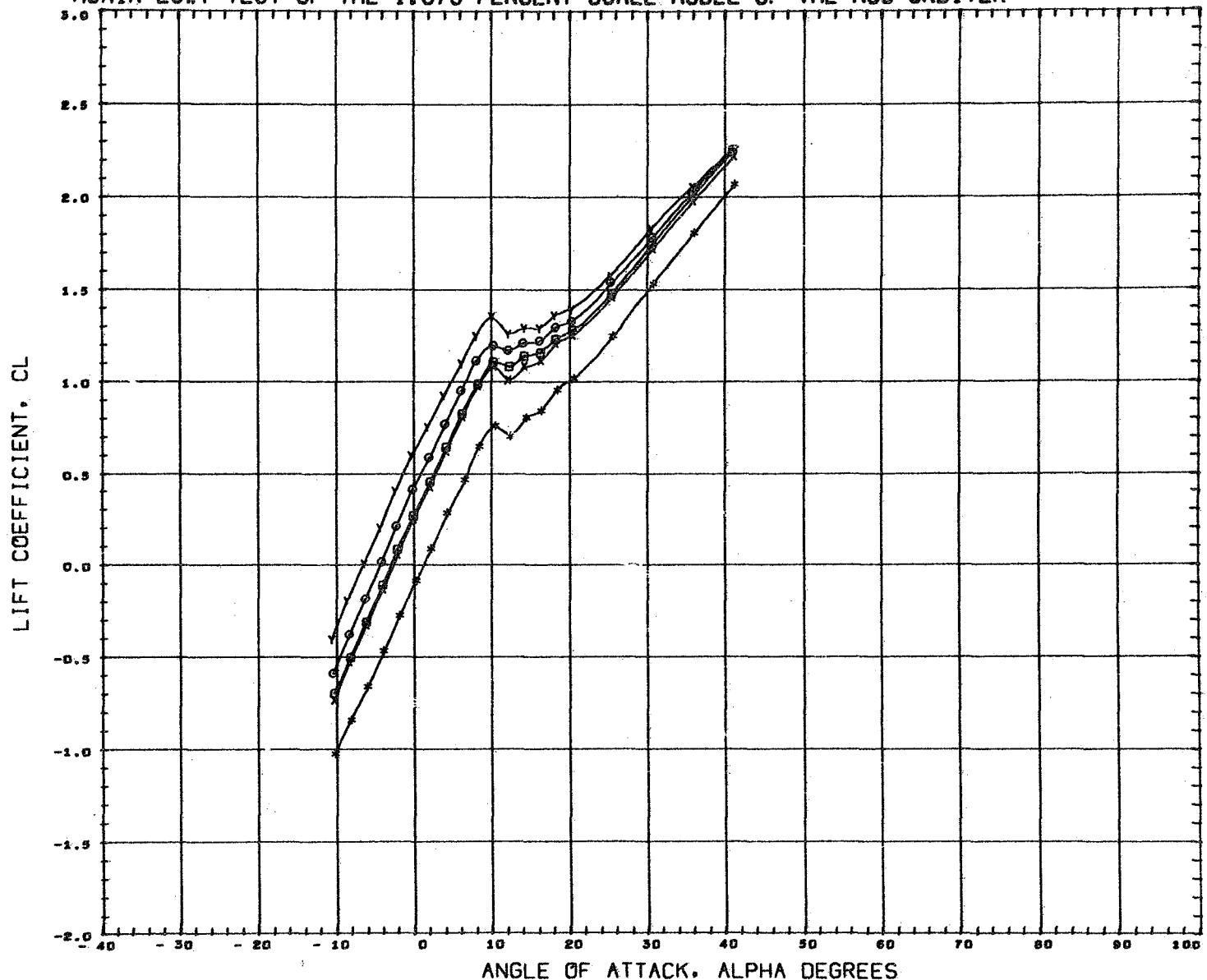
SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
X	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
S	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
O	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
D	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
+	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(AC1H12)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
(AC1H10)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
(AC1H01)	28 JUL 70		REFB 1.50000X10 ⁻⁰⁰ FT.
(AC1H06)	28 JUL 70		XMRP 1.38370X10 ⁺⁰¹ IN.
(AC1H07)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
			ZMRP 2.40000X10 ⁻⁰² IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



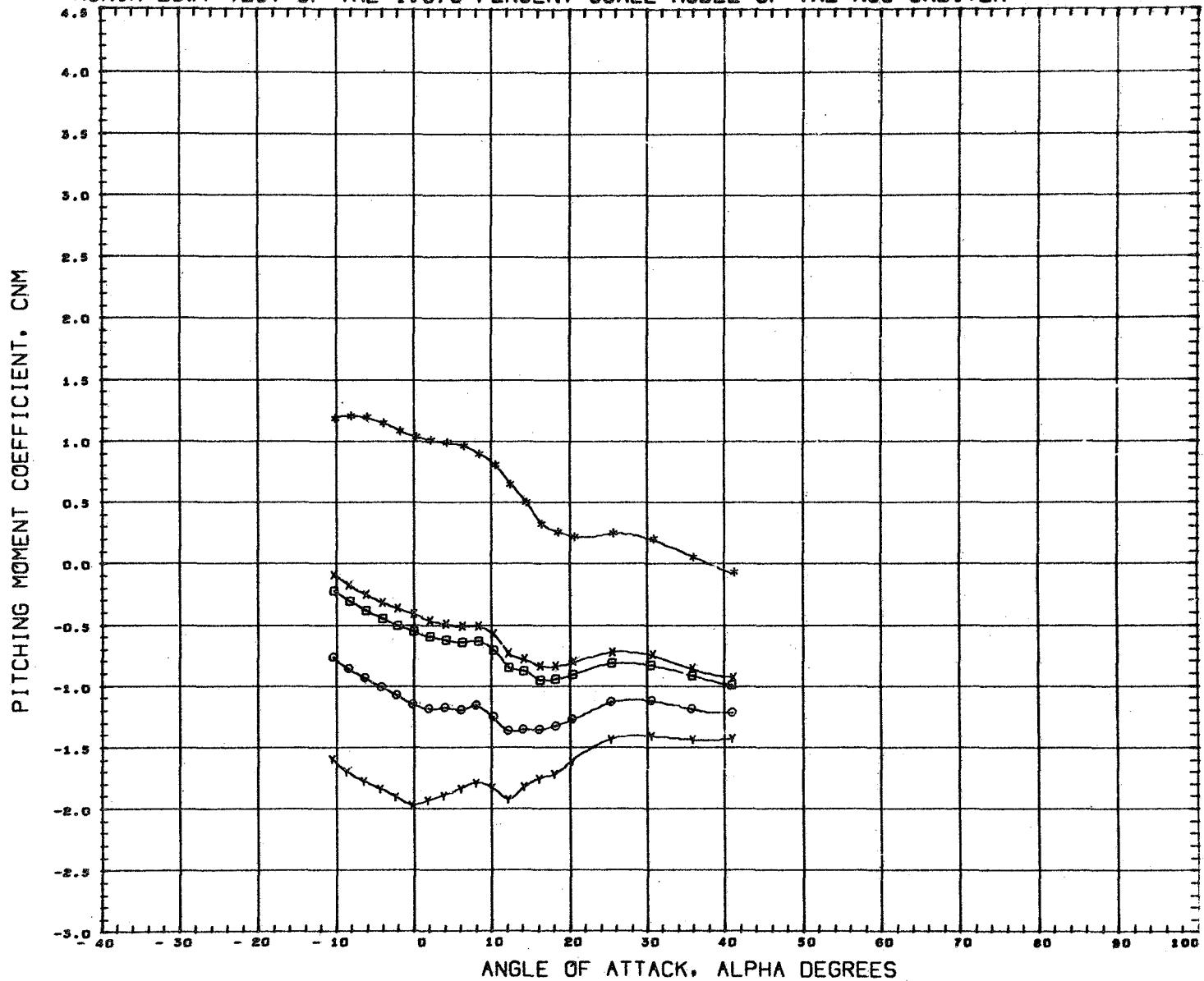
SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
X	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
O	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1H11)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰³ SQ.FT.
(BC1H09)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(BC1H00)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.
(BC1H05)	28 JUL 70		XHRP 1.38370X10 ⁺⁰¹ IN.
(BC1H08)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
			ZHRP 2.40000X10 ⁺⁰⁰ IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

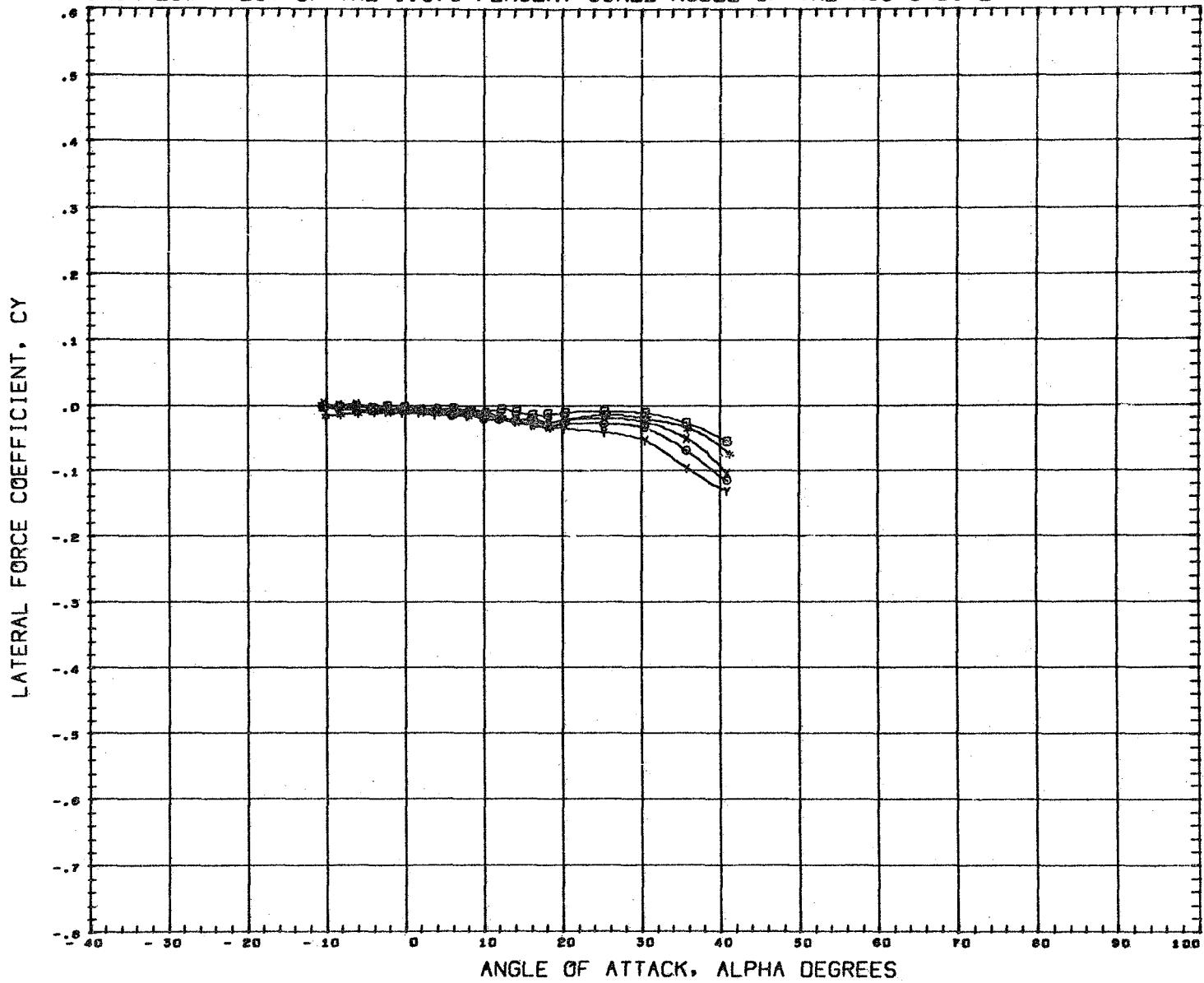


SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
X	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

REFERENCE FILE SDY 37100150

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1H11)	28 JUL 70	0.250	REFS 3.20000X10 ⁻⁰¹ SQ.FT.
(BC1H09)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
(BC1H00)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.
(BC1H05)	28 JUL 70		XMRP 1.38570X10 ⁺⁰¹ IN.
(BC1H08)	28 JUL 70		YNRP 0.00000X10 ⁺⁰⁰ IN.
			ZMRP 2.40000X10 ⁺⁰⁰ IN.
			SCALE 1.87500X10 ⁻⁰¹ SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

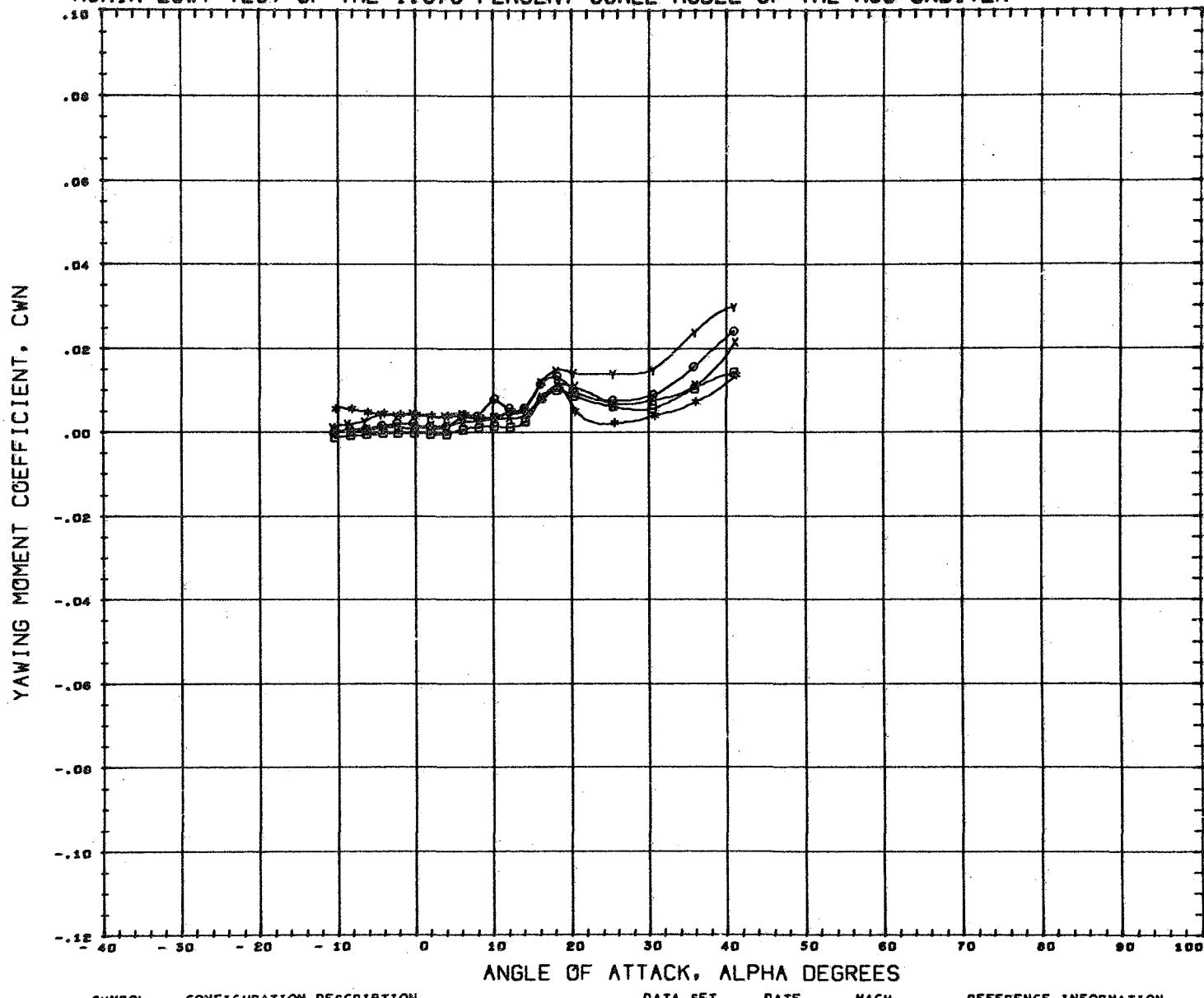


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H11)	28 JUL 70	0.250	REFS 3.20600X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H09)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H00)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.
O	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H03)	28 JUL 70		XMRP 1.38370X10 ⁺⁰⁰ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H08)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
					ZHRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



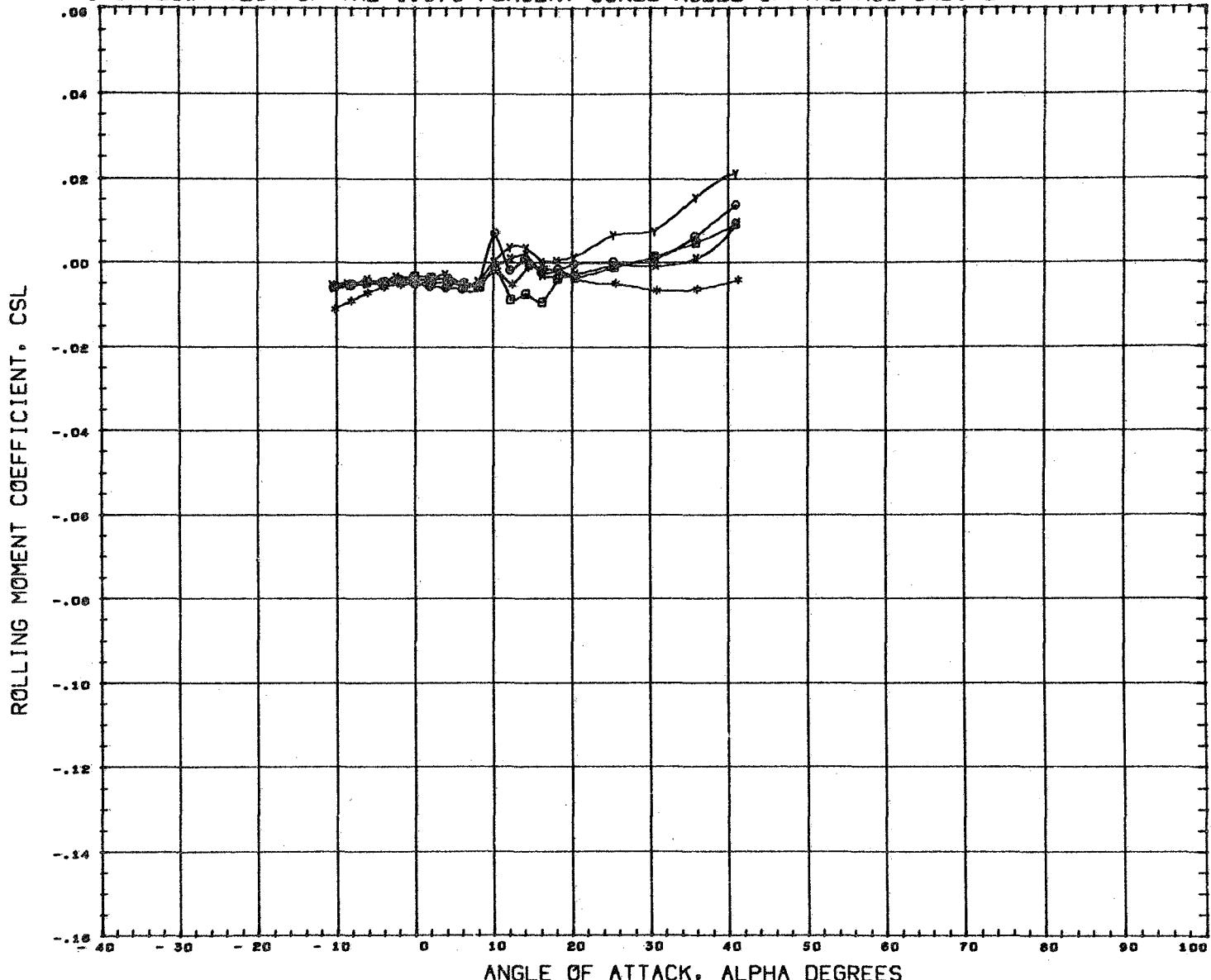
SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
X	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
Q	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1H11)	28 JUL 70	0.250	REFS: 3.20800X10 ⁻⁰¹ SQ.FT.
(BC1H09)	28 JUL 70		REFL: 2.31700X10 ⁺⁰⁰ FT.
(BC1H00)	28 JUL 70		REFB: 1.90000X10 ⁺⁰¹ FT.
(BC1H05)	28 JUL 70		XHRP: 1.38370X10 ⁺⁰¹ IN.
(BC1H08)	28 JUL 70		YMRP: 0.00000X10 ⁺⁰⁰ IN.
			ZMRP: 2.40000X10 ⁺⁰⁰ IN.
			SCALE: 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

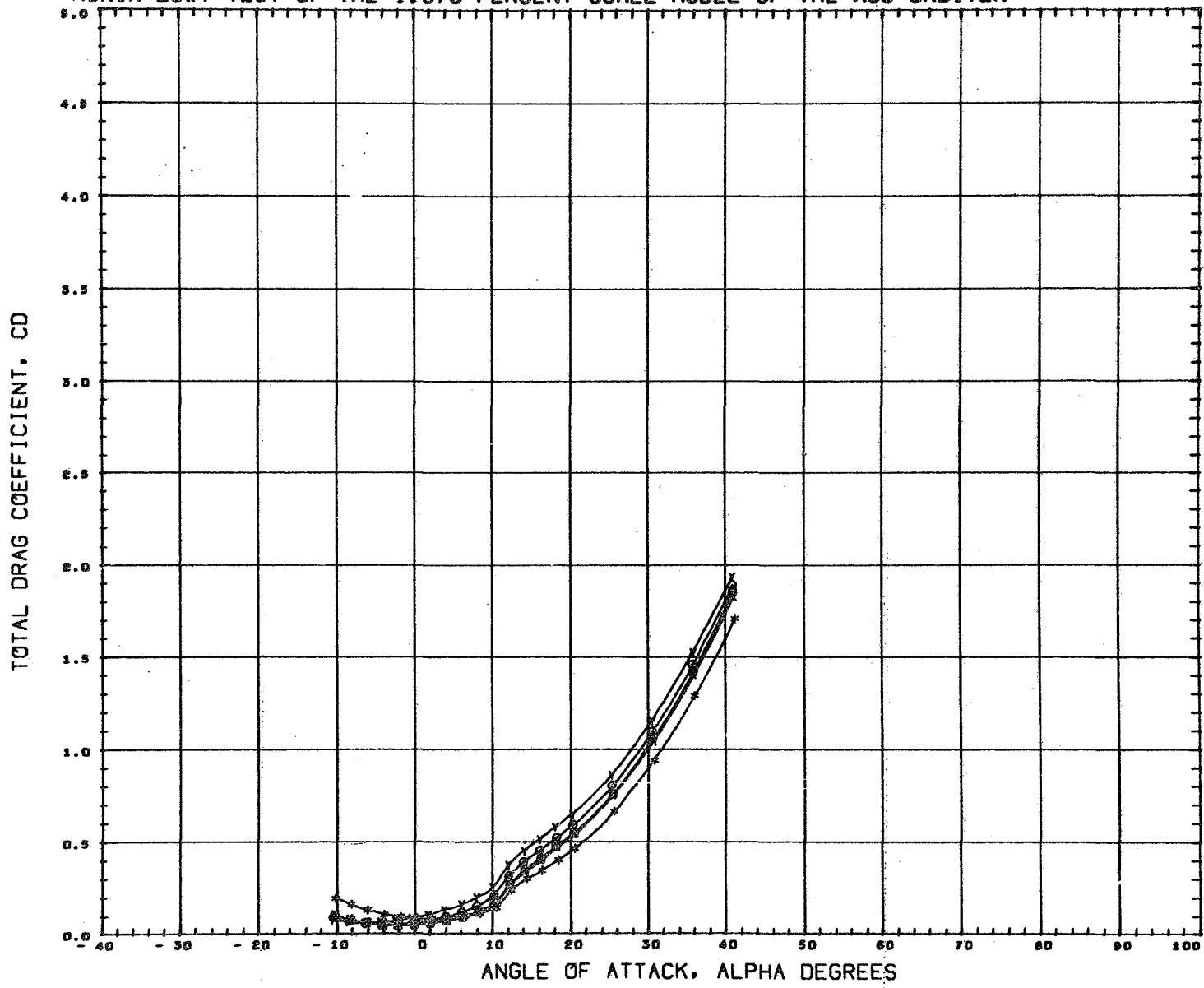


SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
X	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
O	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1H11)	28 JUL 70	0.250	REFS 3.2000X10 ⁻⁰¹ SQ.FT.
(BC1H09)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
(BC1H00)	28 JUL 70		REFB 1.50000X10 ⁻⁰⁰ FT.
(BC1H05)	28 JUL 70		XMRP 1.38370X10 ⁺⁰¹ IN.
(BC1H08)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
			ZMRP 2.40000X10 ⁻⁰² IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL CONFIGURATION DESCRIPTION

*	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
X	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
O	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

DATA SET DATE MACH

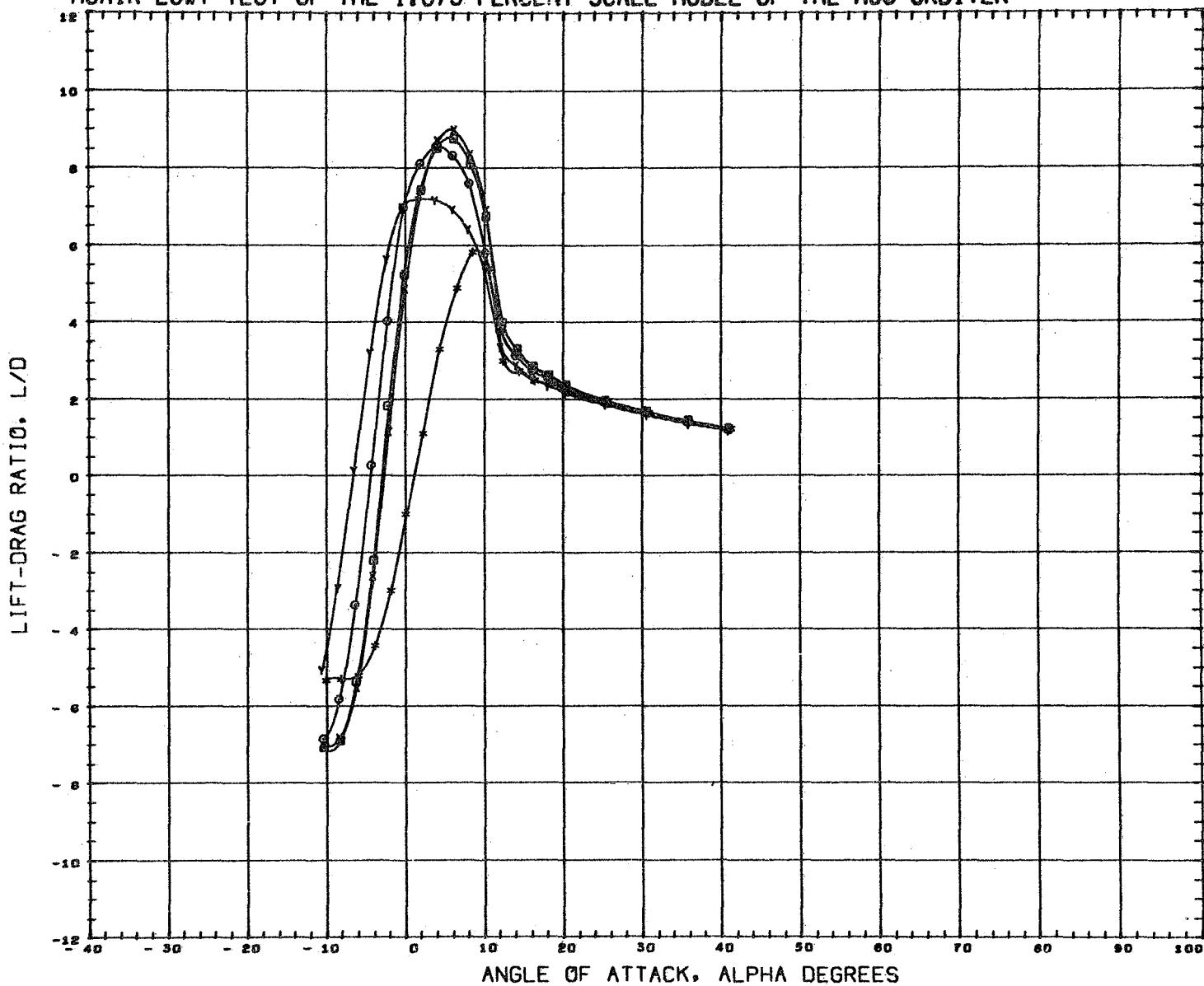
(BC1H11)	28 JUL 70	0.250
(BC1H09)	28 JUL 70	
(BC1H00)	28 JUL 70	
(BC1H05)	28 JUL 70	
(BC1H08)	28 JUL 70	

REFERENCE INFORMATION	
REFS	5.20800×10^{-01} SQ.FT.
REFL	$2.31700 \times 10^{+01}$ FT.
REFB	$1.50000 \times 10^{+00}$ FT.
XHRF	$1.38370 \times 10^{+01}$ IN.
YHRF	$0.00000 \times 10^{+00}$ IN.
ZHRF	$2.40000 \times 10^{+00}$ IN.
SCALE	1.87500×10^{-02} SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

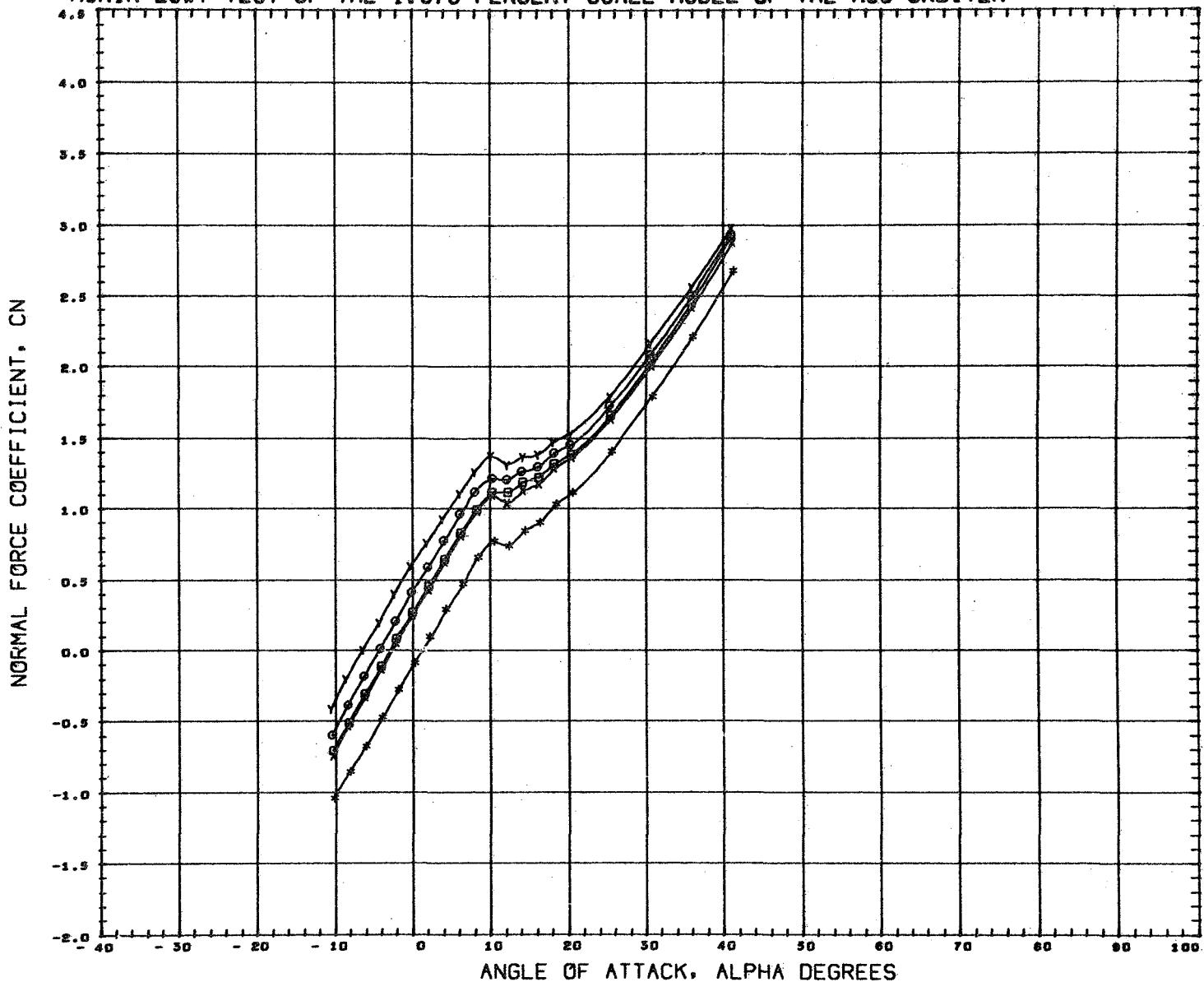


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H11)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H09)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
O	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H00)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
D	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H05)	28 JUL 70		XHRF 1.38370X10 ⁺⁰¹ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H08)	28 JUL 70		YHRP 0.00000X10 ⁺⁰⁰ IN.
					ZMRP 2.40000X10 ⁺⁰⁰ IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

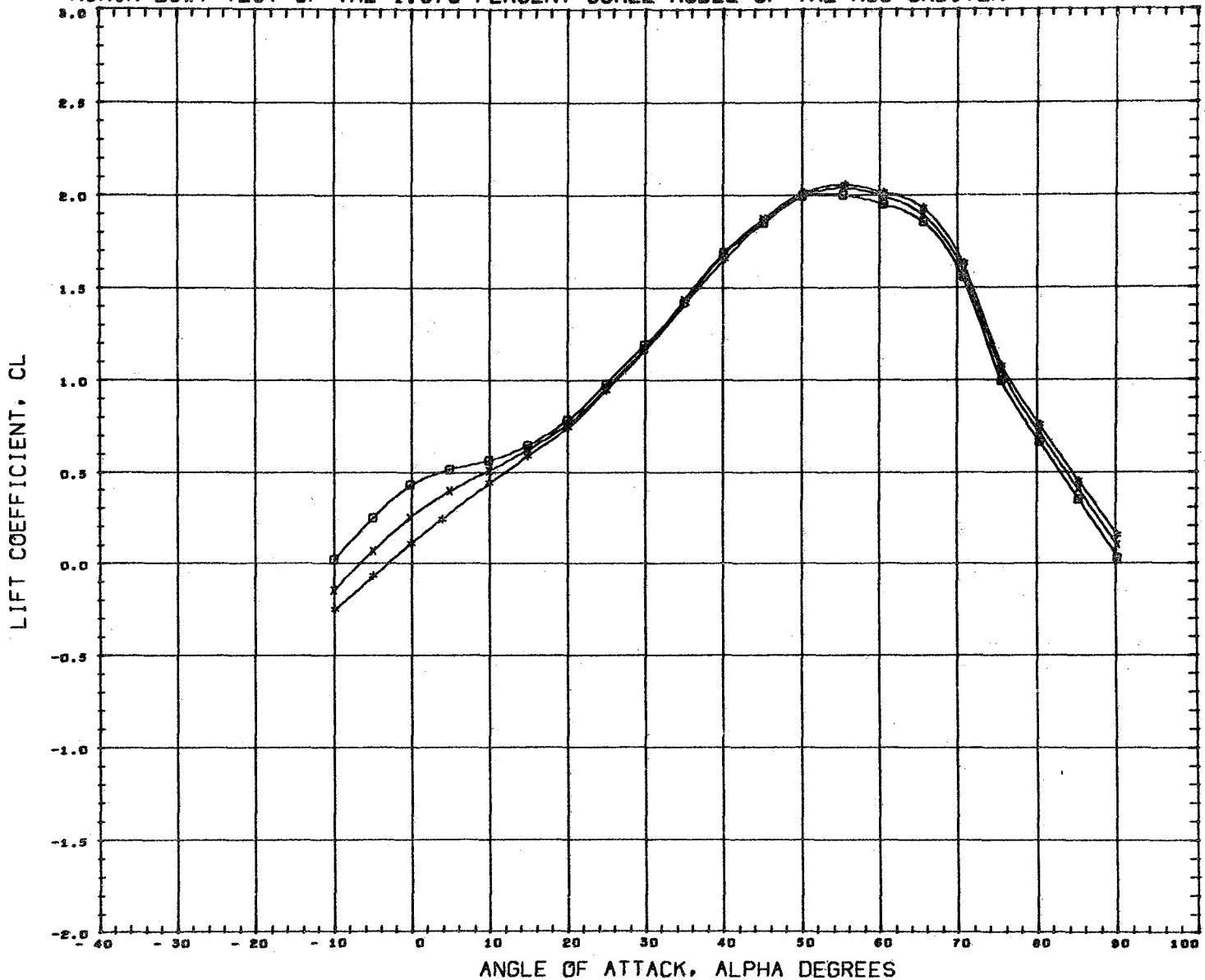


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(AC1H11)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 CRB. B1H1513V3W1	(AC1H09)	28 JUL 70	0.250	REFL 2.31700X10 ⁻⁰¹ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(AC1H00)	28 JUL 70	0.250	REFB 1.50000X10 ⁺⁰⁰ FT.
O	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(AC1H05)	28 JUL 70	0.250	XMRF 1.36370X10 ⁺⁰¹ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(AC1H08)	28 JUL 70	0.250	YMRP 0.00000X10 ⁺⁰⁰ IN.
					ZMRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

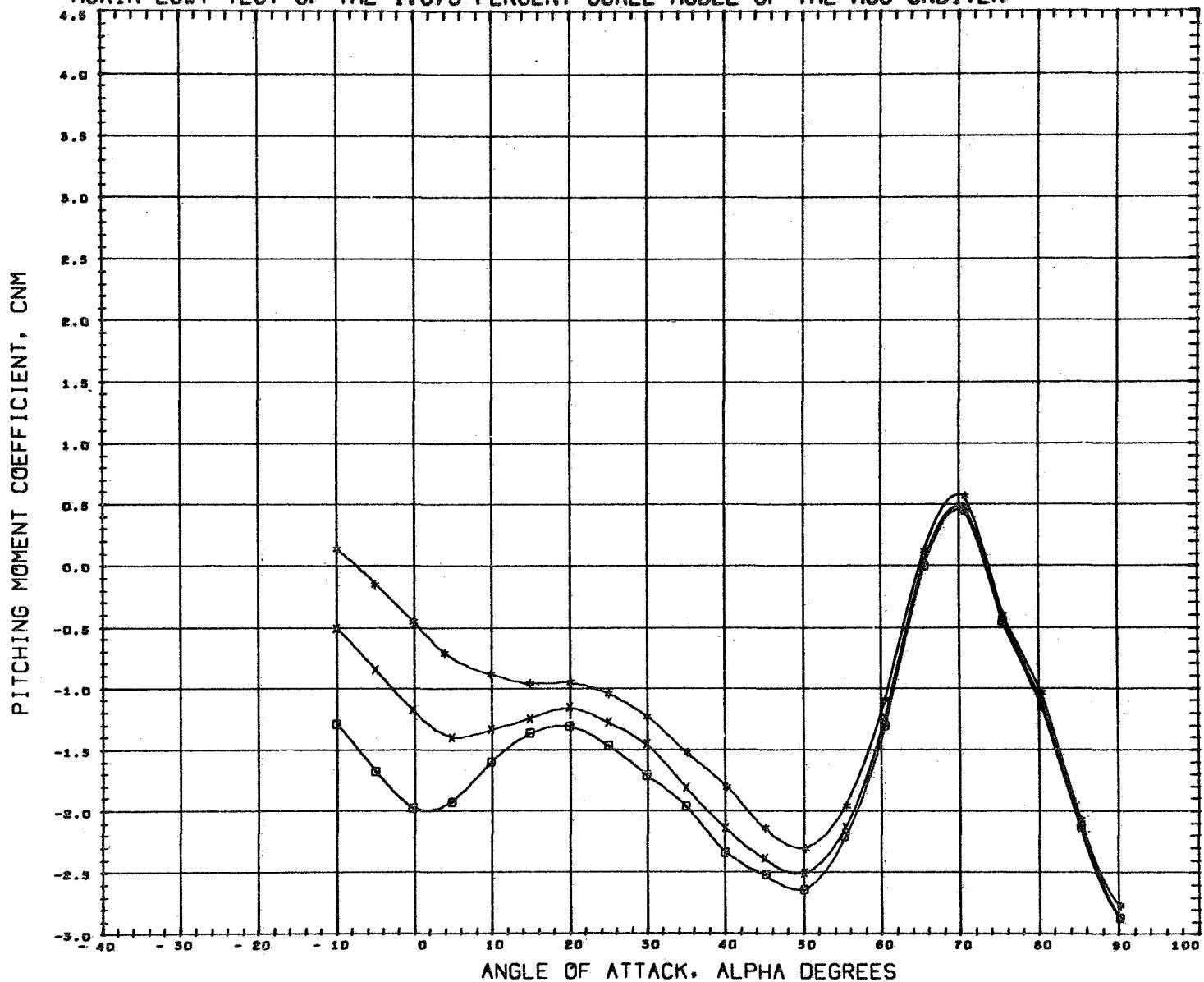


SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB B1H1513V3
 X LSWT 223 1.875 PC MOD S5 ORB B1H1513V3
 C LSWT 223 1.875 PC MOD S5 ORB B1H1513V3

DATA SET DATE MACH REFERENCE INFORMATION
 (BC1062) 28 JUL 70 0.170 REFS 3.20000X10⁻⁰¹ SQ.FT.
 (BC1064) 28 JUL 70 0.170 REFL 2.31700X10⁻⁰¹ FT.
 (BC1061) 28 JUL 70 0.170 REFB 1.50000X10⁺⁰⁰ FT.
 XNRP 1.38370X10⁺⁰¹ IN.
 YNRP 0.00000X10⁺⁰⁰ IN.
 ZNRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

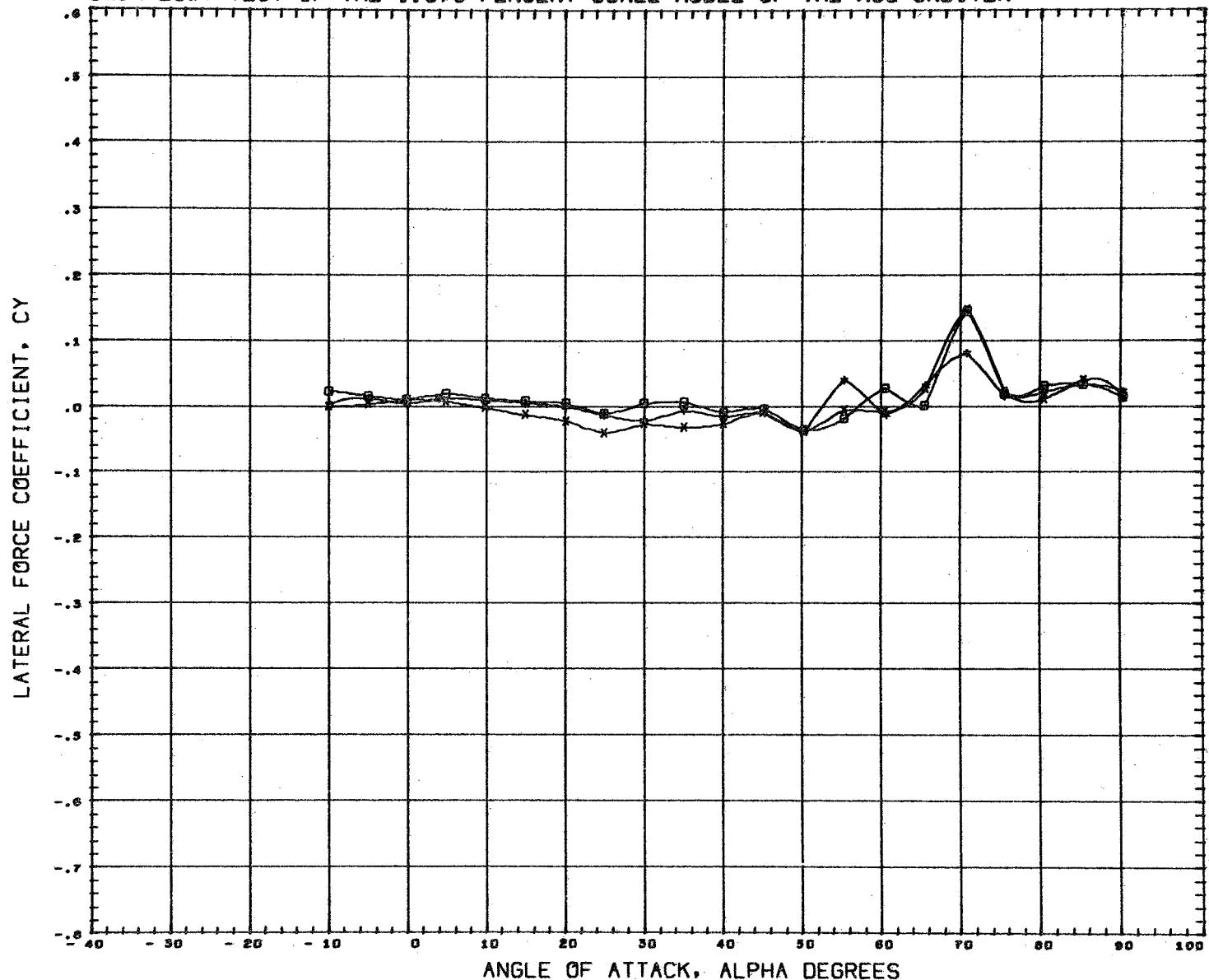


SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB BIH1513V3
 X LSWT 223 1.875 PC MOD S5 ORB BIH1513V3
 O LSWT 223 1.875 PC MOD S5 ORB BIH1513V3

DATA SET DATE MACH REFERENCE INFORMATION
 (BC1062) 28 JUL 70 0.170 REFS 3.20000X10⁻⁰¹ Sq.FT.
 (BC1064) 28 JUL 70 0.170 REFL 2.31700X10⁺⁰⁰ FT.
 (BC1061) 28 JUL 70 0.170 REFB 1.50000X10⁺⁰¹ FT.
 XNRP 1.38370X10⁺⁰¹ IN.
 YNRP 0.00000X10⁺⁰⁰ IN.
 ZNRP 2.40000X10⁺⁰⁰ IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

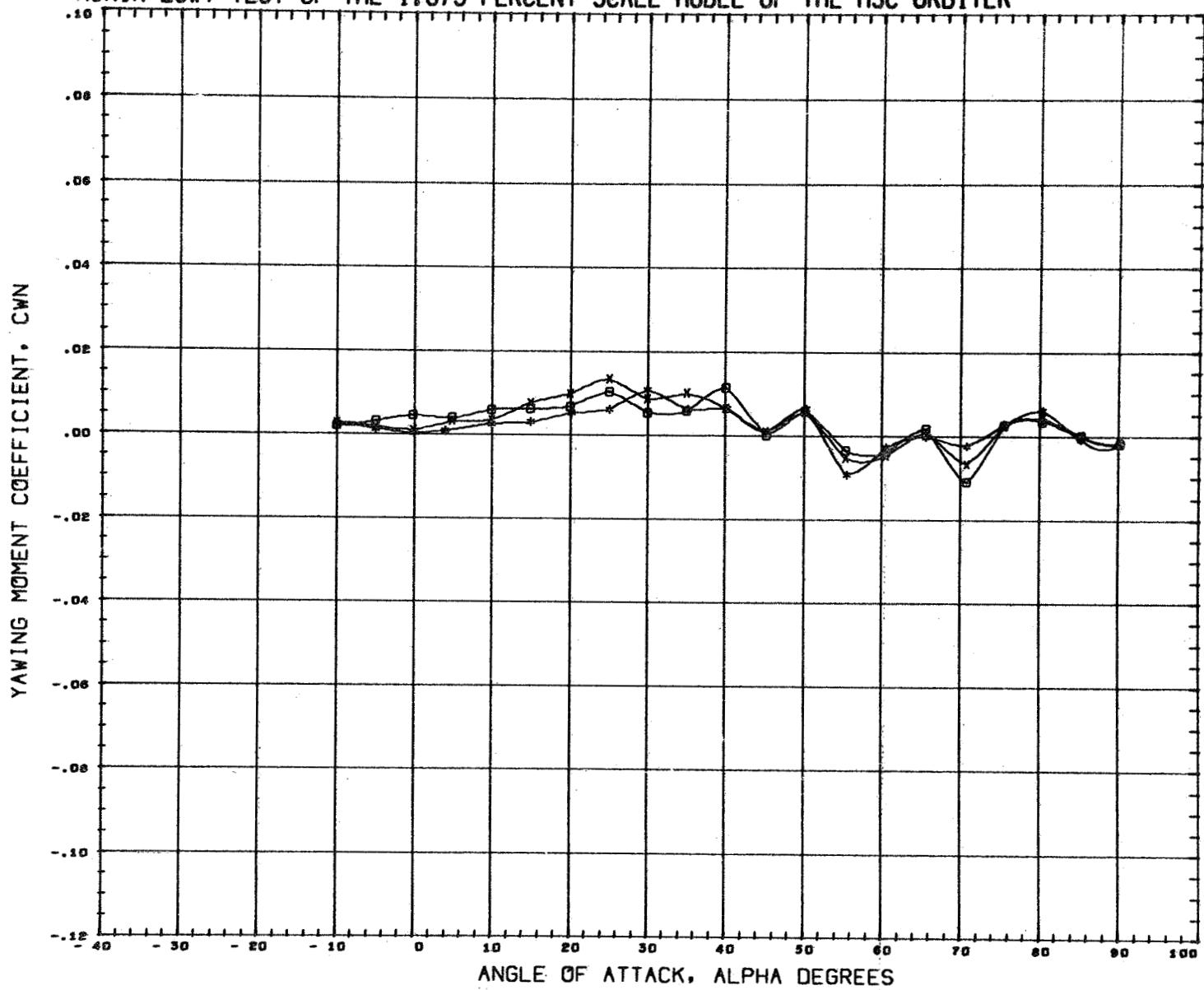
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB B1H1513V3	(BC1062)	28 JUL 70	0.170	REFS 3.20800×10^{-01} SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB B1H1513V3	(BC1064)	28 JUL 70		REFL 2.51700×10^{-01} FT.
G	LSWT 223 1.875 PC MOD S5 ORB B1H1513V3	(BC1061)	28 JUL 70		REFB $1.50000 \times 10^{+00}$ FT. XMRP $1.38370 \times 10^{+01}$ IN. YMRP $0.00000 \times 10^{+00}$ IN. ZMRP 2.40000×10^{-02} IN. SCALE 1.87500×10^{-02} SCALE

REFERENCE FILE SDY 3710015D

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

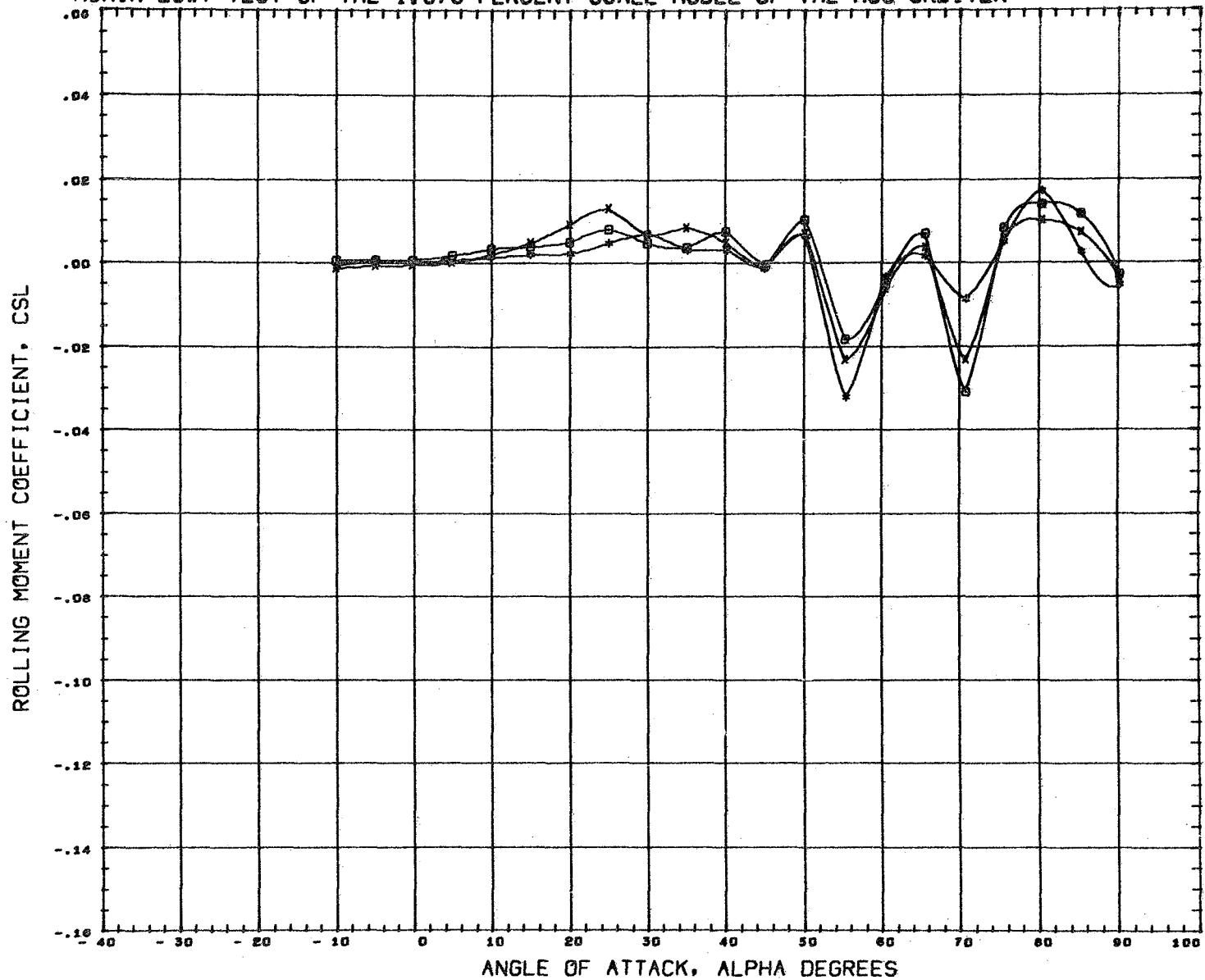


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB B1H1513V3	(BC1062)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰³ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB B1H1513V3	(BC1064)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB B1H1513V3	(BC1061)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.

REFERENCE FILE SDY 37100150

PAGE 100

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

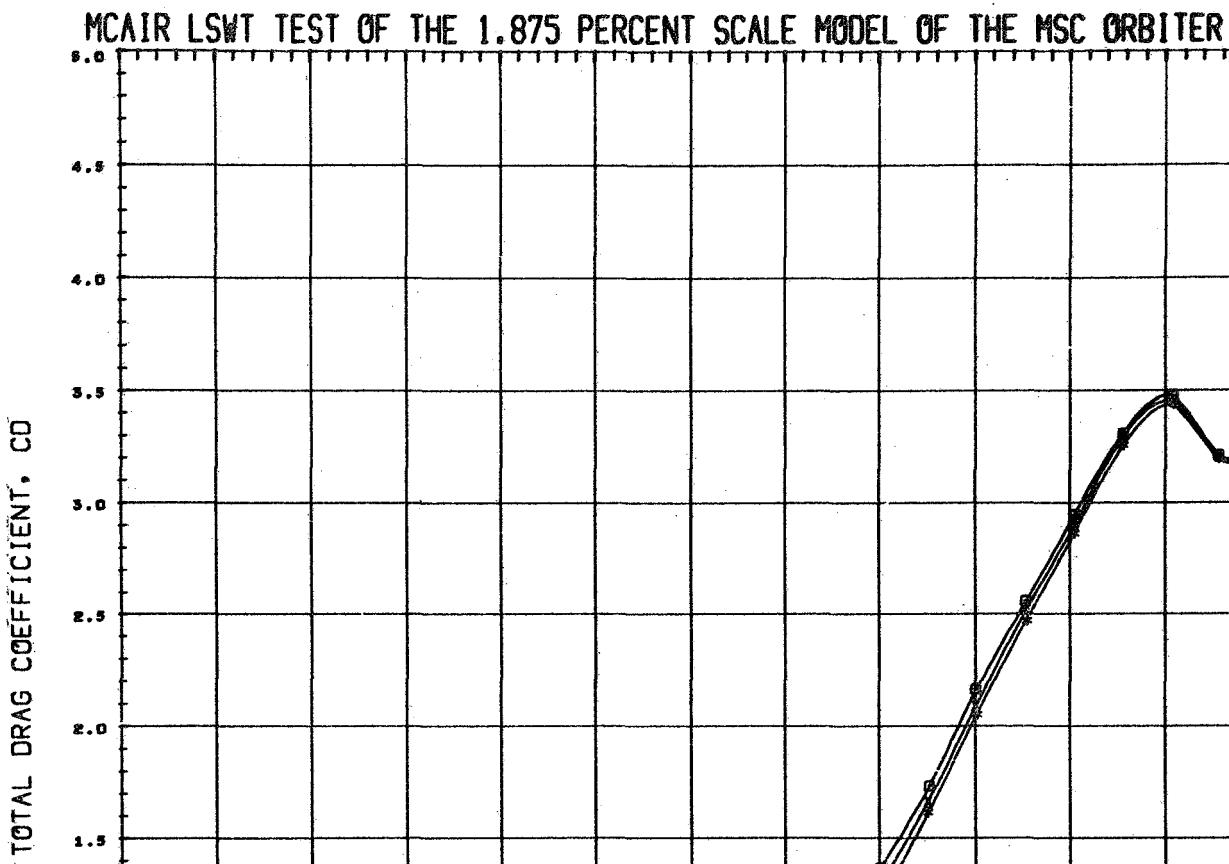


SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD SS ORB B1H1513V3
X	LSWT 223 1.875 PC MOD SS ORB B1H1513V3
G	LSWT 223 1.875 PC MOD SS ORB B1H1513V3

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1062)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
(BC1064)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(BC1061)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
			XHRP 1.38370X10 ⁺⁰¹ IN.
			YHRP 0.00000X10 ⁺⁰⁰ IN.
			ZHRP 2.40000X10 ⁺⁰² IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150



SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB B1H1513V3
 X LSWT 223 1.875 PC MOD S5 ORB B1H1513V3
 O LSWT 223 1.875 PC MOD S5 ORB B1H1513V3

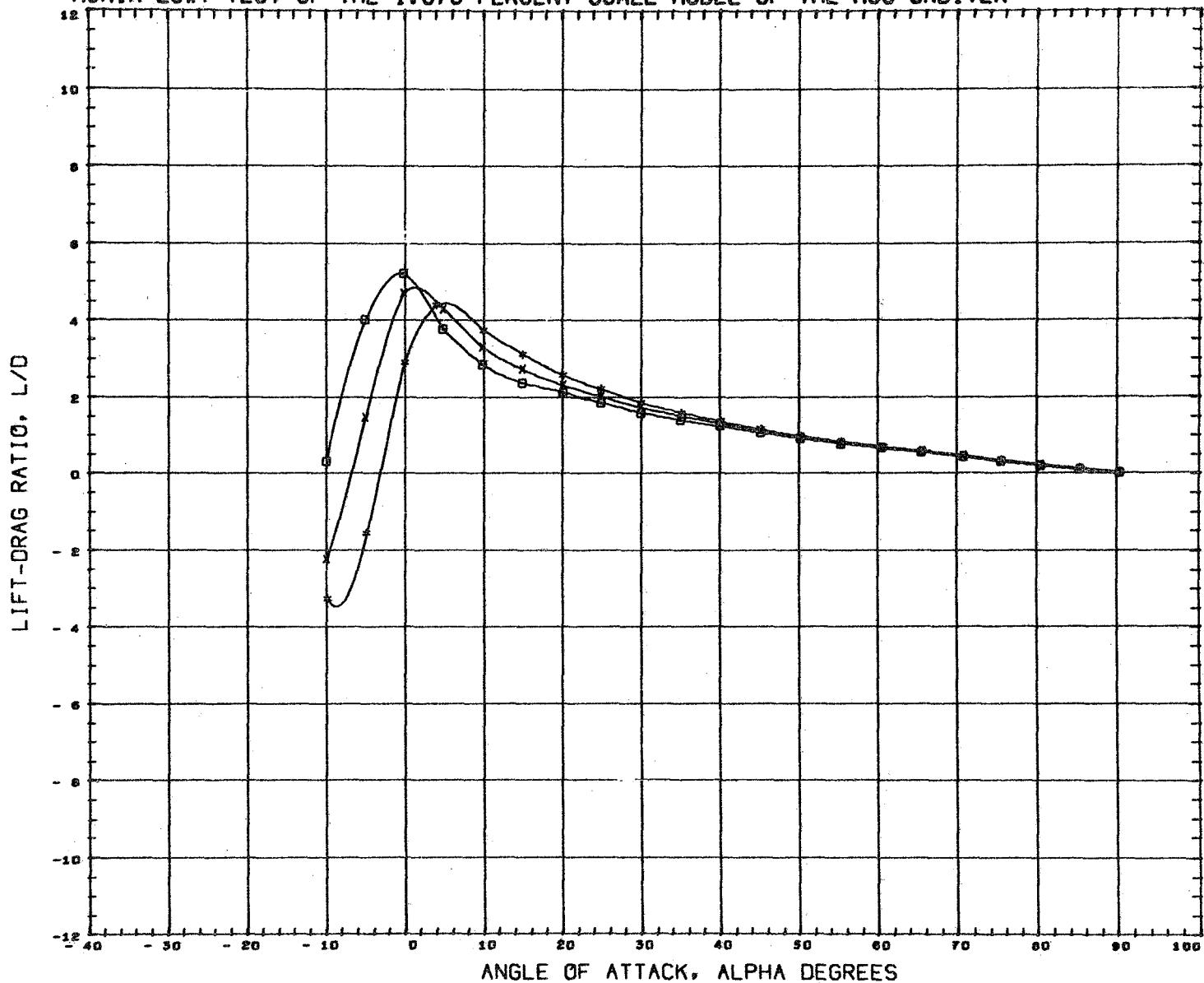
DATA SET DATE MACH
 (BC1062) 28 JUL 70 0.170
 (BC1064) 28 JUL 70 0.170
 (BC1061) 28 JUL 70 0.170

REFERENCE INFORMATION
 REFS 3.20800×10^{-01} SQ.FT.
 REFL $2.31700 \times 10^{+00}$ FT.
 REFB $1.30000 \times 10^{+01}$ FT.
 XNRP $1.38370 \times 10^{+01}$ IN.
 YMNP $0.00000 \times 10^{+00}$ IN.
 ZWRP $2.40000 \times 10^{+00}$ IN.
 SCALE 1.87500×10^{-02} SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

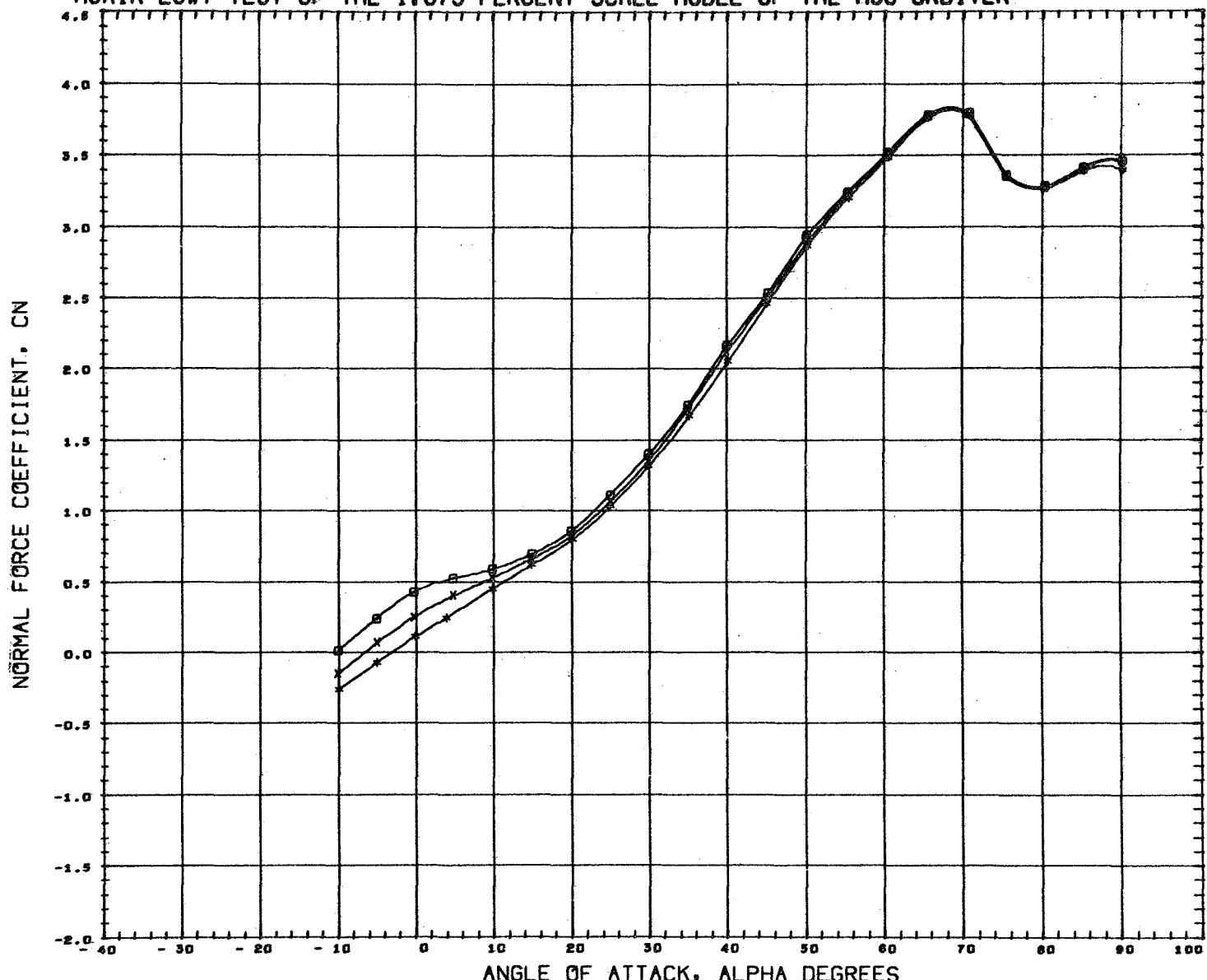


SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB B1H1513V3
 X LSWT 223 1.875 PC MOD S5 ORB B1H1513V3
 □ LSWT 223 1.875 PC MOD S5 ORB B1H1513V3

DATA SET DATE MACH REFERENCE INFORMATION
 (BC1062) 28 JUL 70 0.170 REFS 3.20000X10⁻⁰¹ SR.FT.
 (BC1064) 28 JUL 70 REFL 2.31700X10⁻⁰¹ FT.
 (BC1061) 28 JUL 70 REFb 1.50000X10⁺⁰⁰ FT.
 XMRP 1.38370X10⁻⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



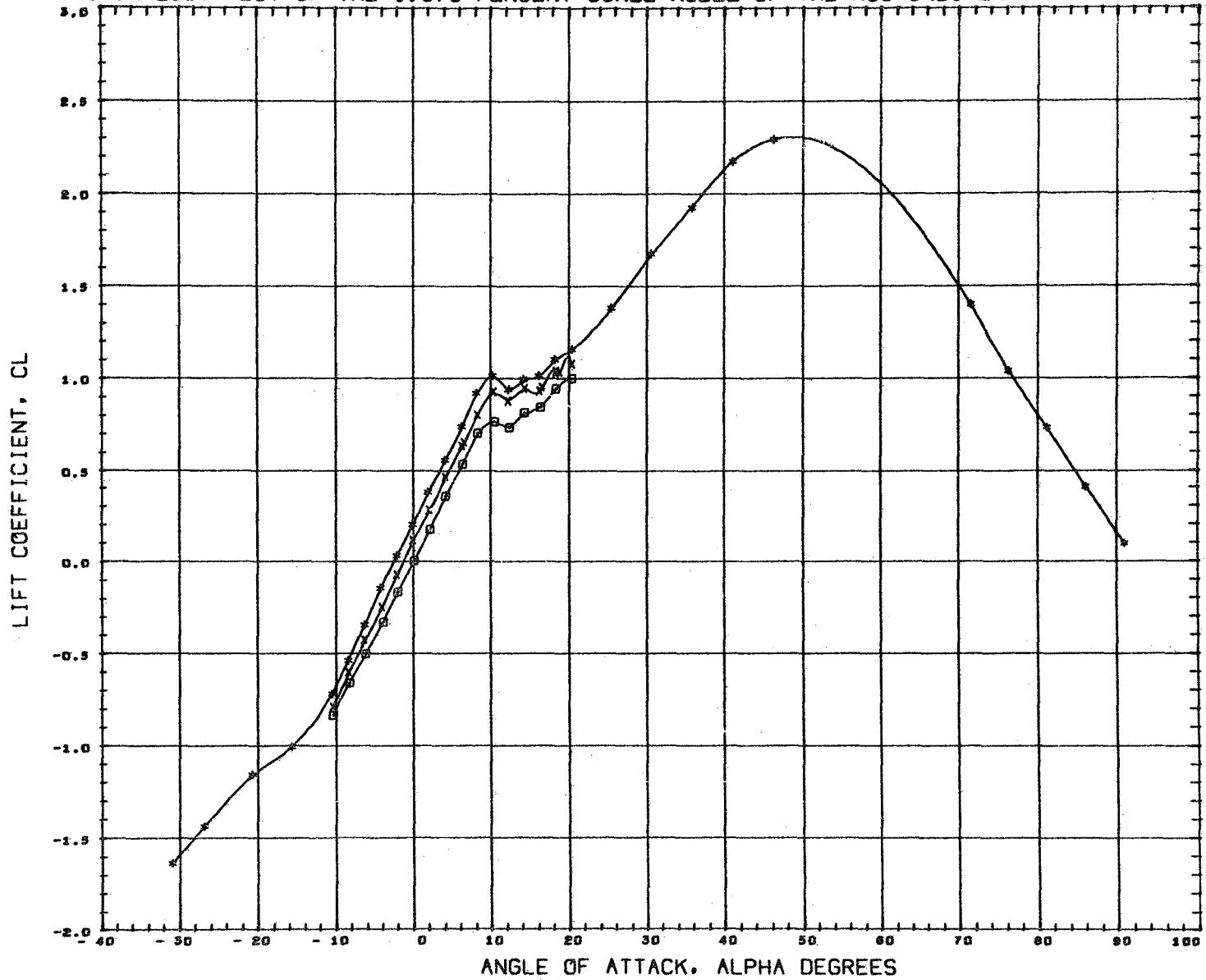
SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 225 1.875 PC MOD S5 ORB B1H1513V3
X	LSWT 223 1.875 PC MOD S5 ORB B1H1513V3
S	LSWT 223 1.875 PC MOD S5 ORB B1H1513V3

DATA SET	DATE	MACH	REFERENCE INFORMATION
(AC1062)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
(AC1064)	28 JUL 70		REFL 2.31700X10 ⁺⁰¹ FT.
(AC1061)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
			XMRP 1.38370X10 ⁺⁰¹ IN.
			YMRP 0.00000X10 ⁺⁰⁰ IN.
			ZMRP 2.40000X10 ⁺⁰⁰ IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



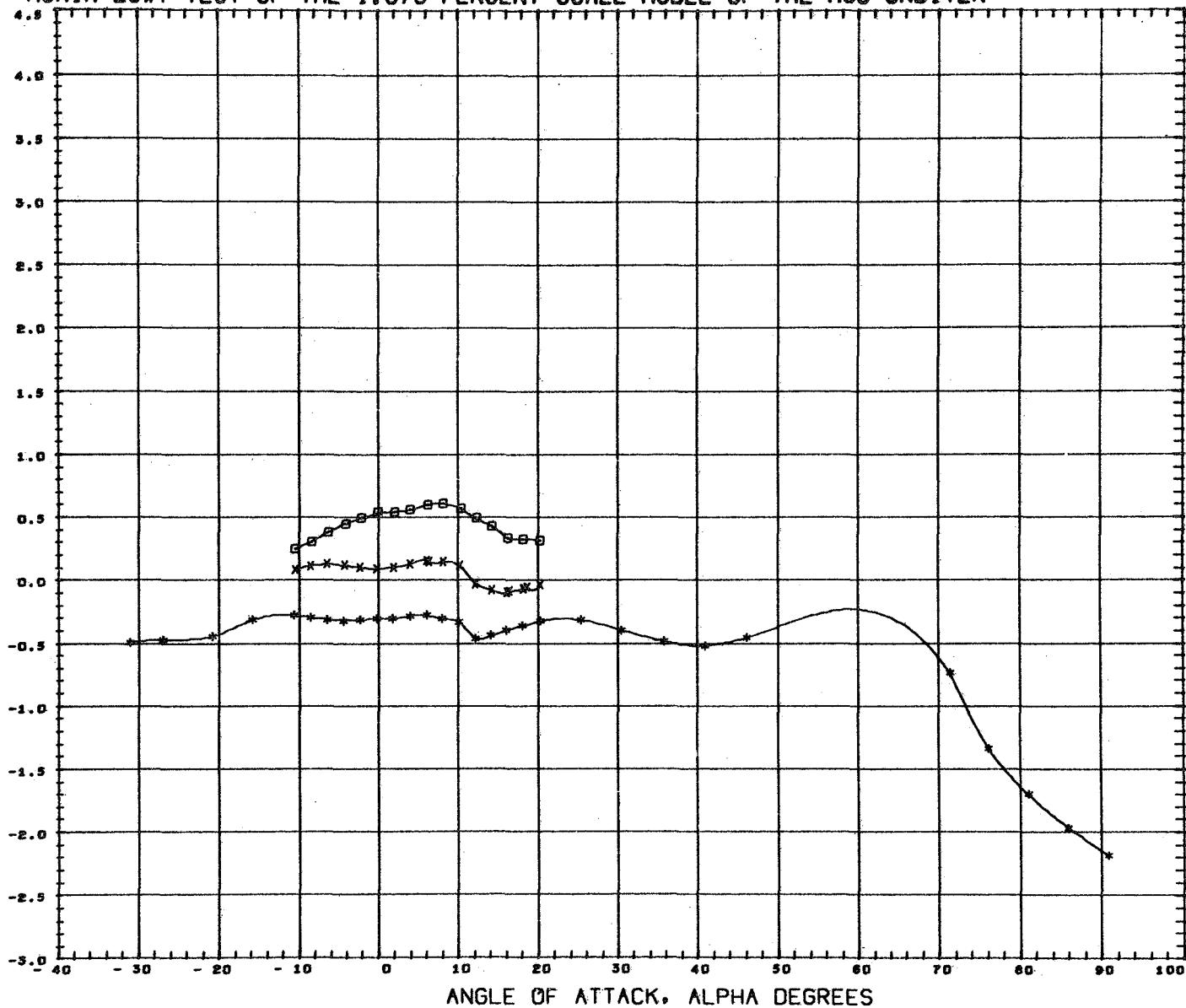
SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD SS ORB. B1H6V3W1 (FWD)	(BC1F00)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD SS ORB. B1H6V3W1 (FWD)	(BC1F02)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD SS ORB. B1H6V3W1 (FWD)	(BC1F03)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.

XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CM

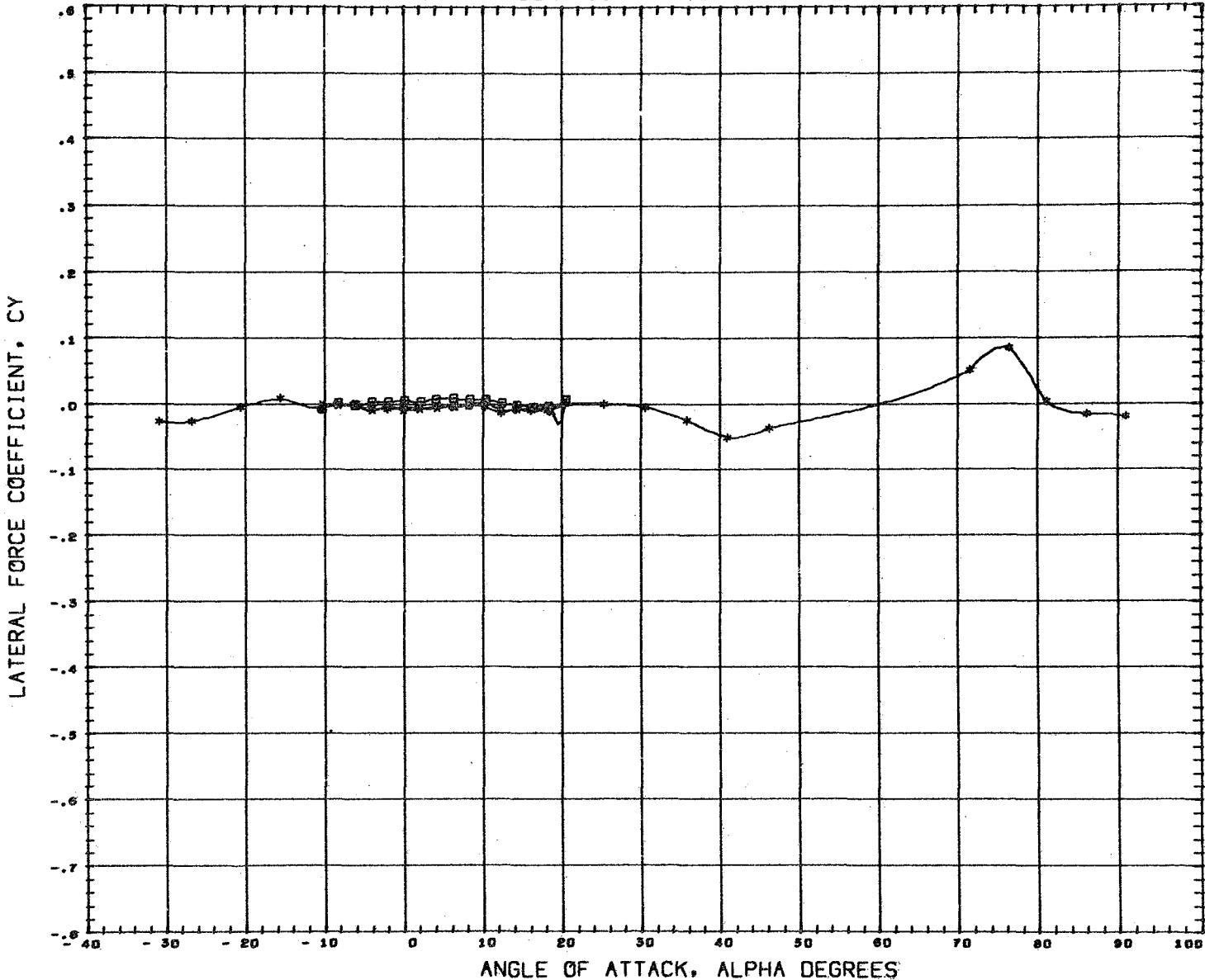


SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 X LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 G LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1F00)	28 JUL 70	0.250	REFS 3.20000×10^{-01} SG.FT.
(BC1F02)	28 JUL 70		REFL 2.31700×10^{-01} FT.
(BC1F03)	28 JUL 70		REFB $1.50000 \times 10^{+00}$ FT.
			XMRP $1.38370 \times 10^{+01}$ IN.
			YMRP $0.00000 \times 10^{+00}$ IN.
			ZMRP $2.40000 \times 10^{+00}$ IN.
			SCALE 1.87500×10^{-02} SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

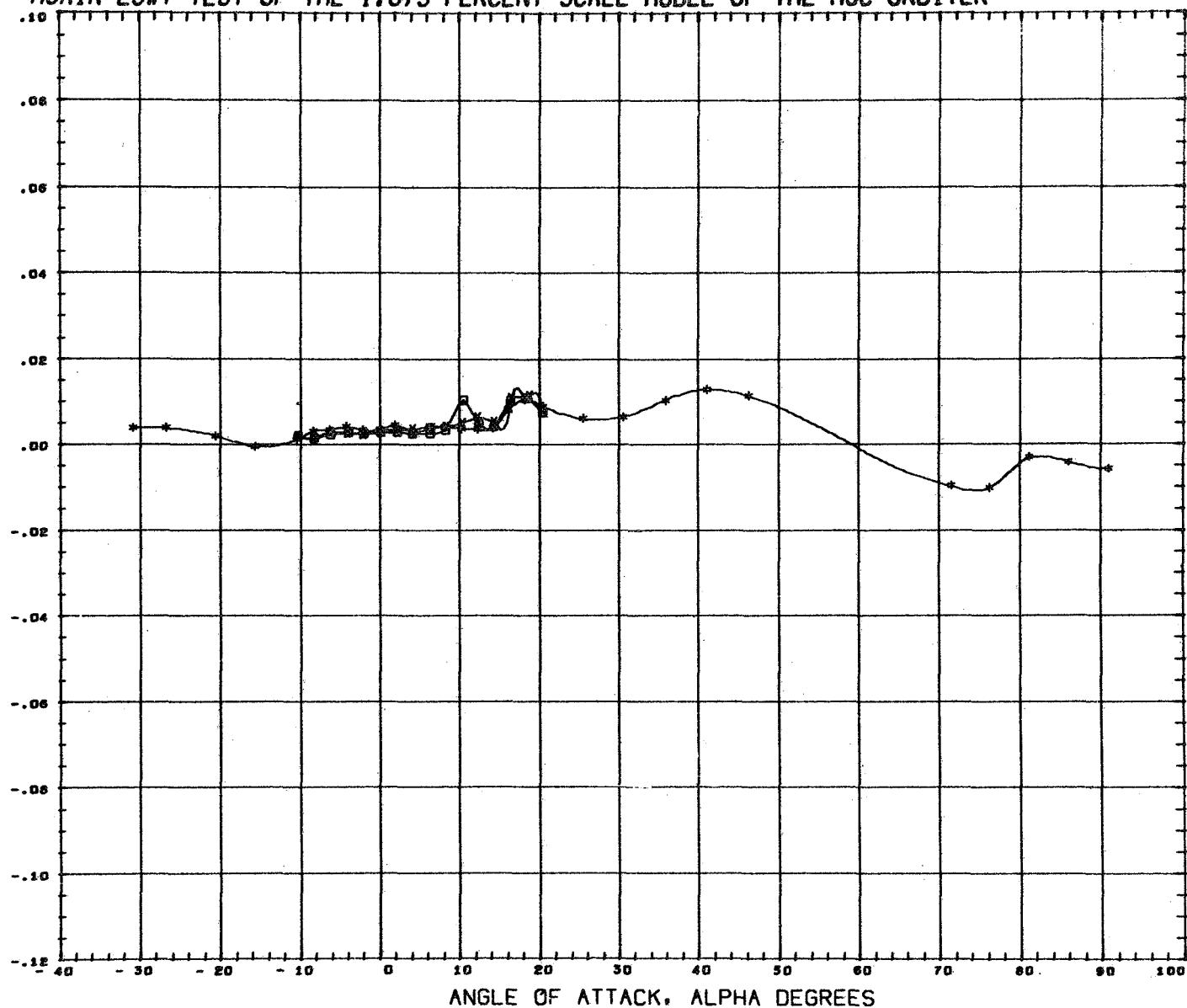


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F00)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
x	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F02)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
o	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F03)	28 JUL 70		REFB 1.90000X10 ⁺⁰⁰ FT.

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, C_{WN}



SYMBOL CONFIGURATION DESCRIPTION

*

 LSWT 223 1.875 FC MOD S5 ORB. B1H6V3W1 (FWD)
 x LSWT 223 1.875 FC MOD S5 ORB. B1H6V3W2 (FWD)
 o LSWT 223 1.875 FC MOD S5 ORB. B1H6V3W1 (FWD)

DATA SET

(BC1F00) 28 JUL 70 0.250
 (BC1F02) 28 JUL 70
 (BC1F03) 28 JUL 70

DATE

28 JUL 70
 28 JUL 70
 28 JUL 70

MACH

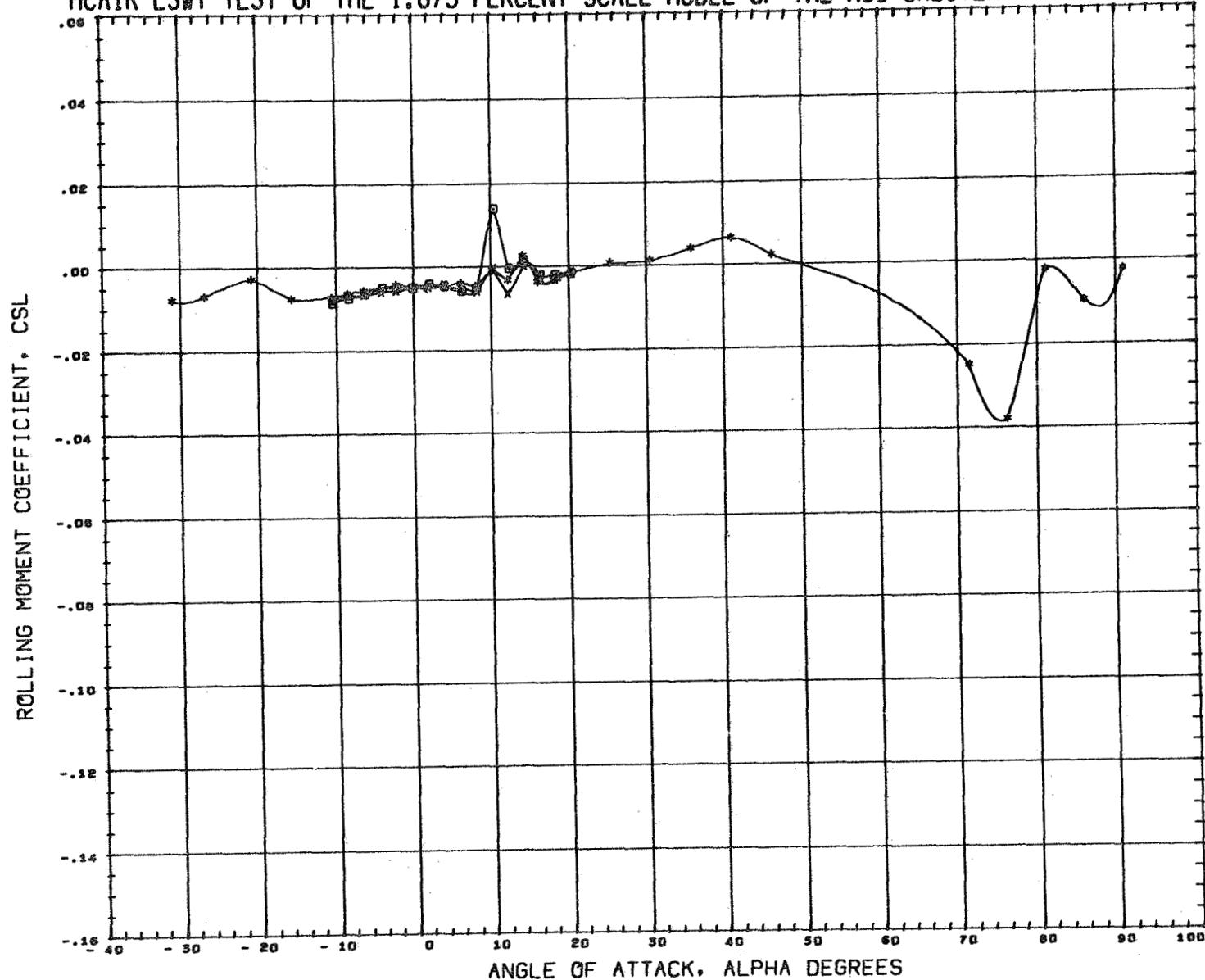
0.250
 0.250
 0.250

REFERENCE INFORMATION
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 REFL 2.31700X10⁺⁰⁰ FT.
 REFB 1.50000X10⁺⁰¹ FT.
 XMRF 1.38370X10⁺⁰¹ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZMRF 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



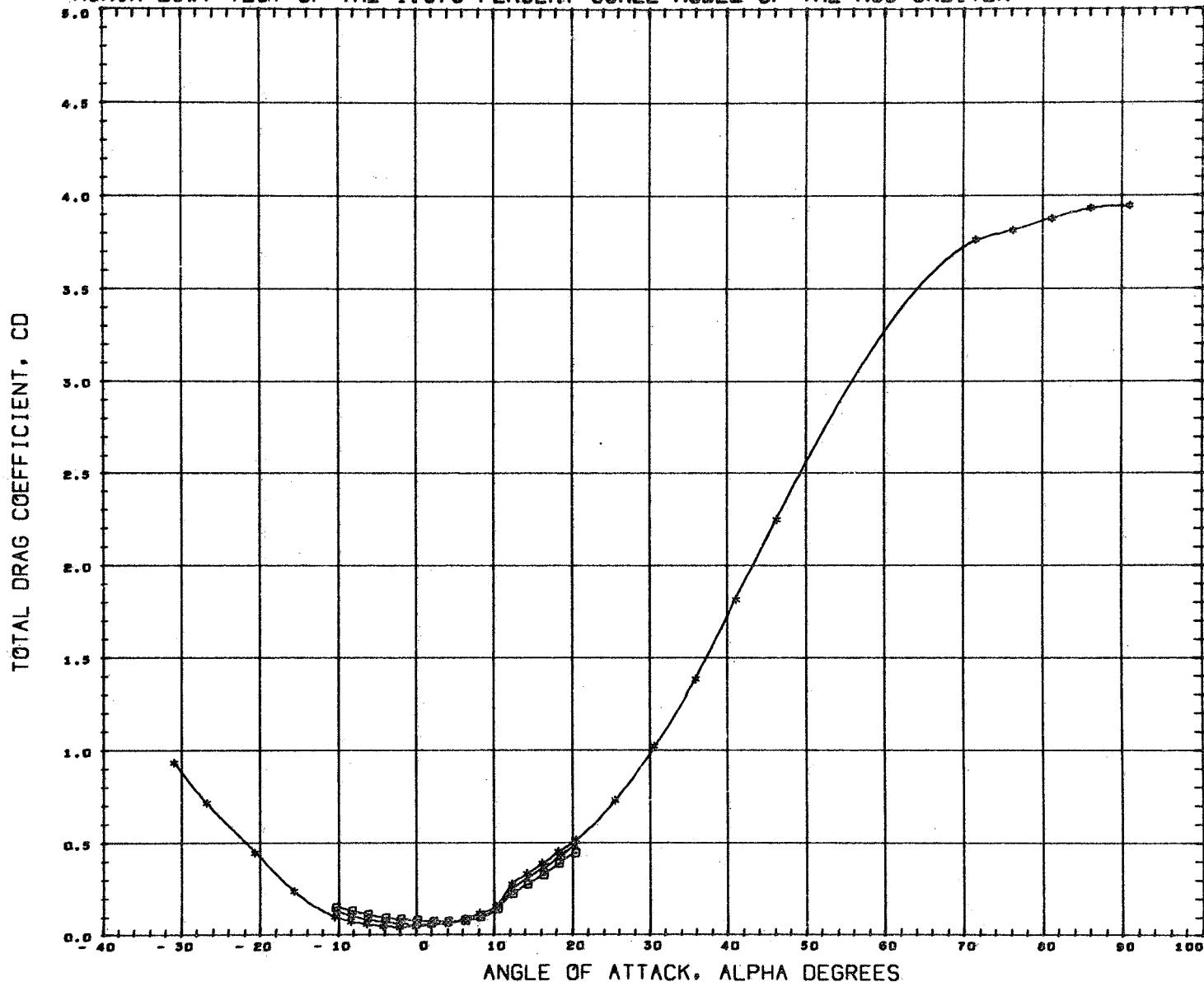
SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F00)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F02)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F03)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
					XHRF 1.38370X10 ⁺⁰⁰ IN.
					YMRP 0.00000X10 ⁺⁰⁰ IN.
					ZMRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

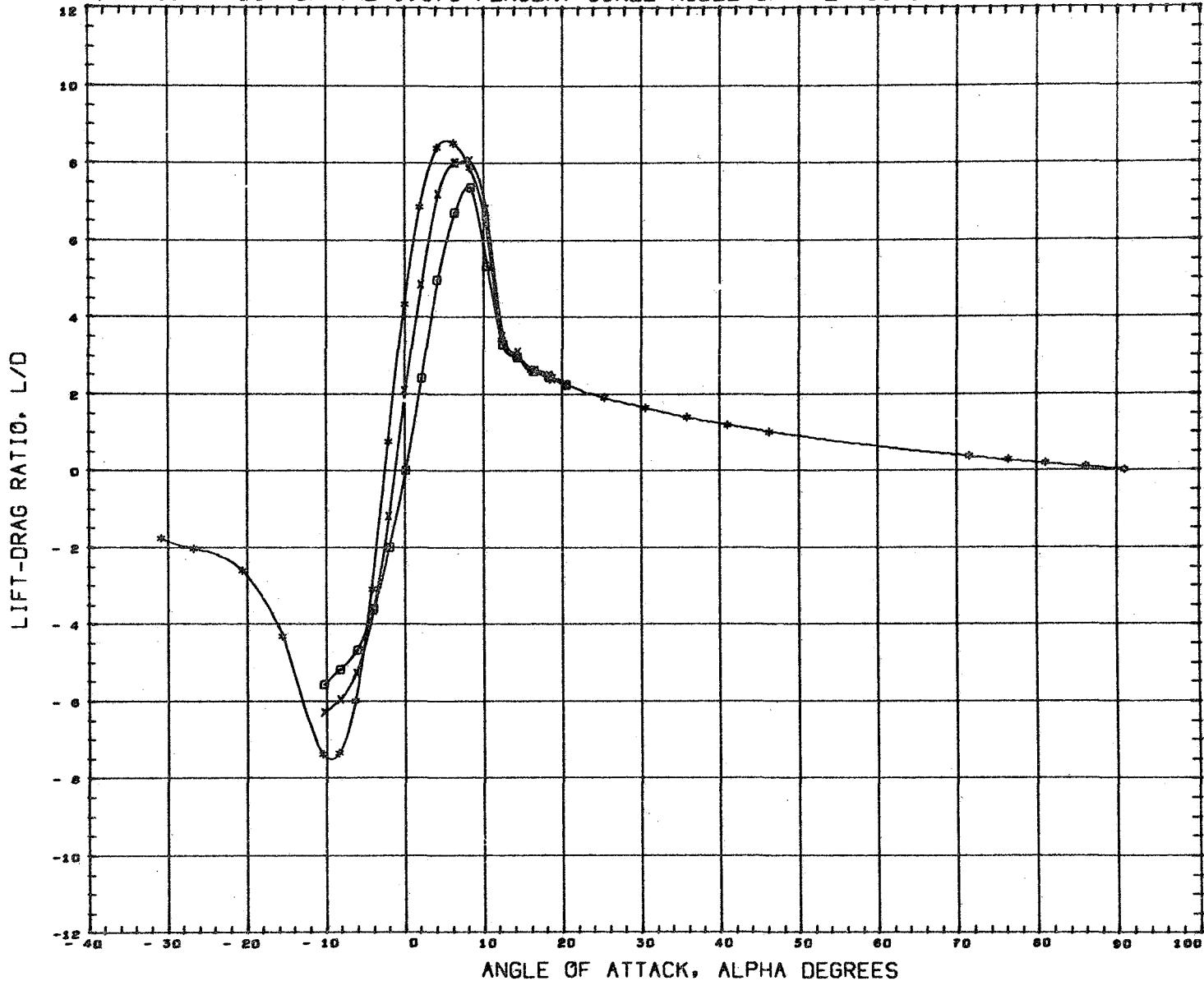


SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 X LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 O LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)

DATA SET DATE MACH REFERENCE INFORMATION
 (BC1F00) 28 JUL 70 0.250 REFS 3.20800X10⁻⁰¹ SQ.FT.
 (BC1F02) 28 JUL 70 0.250 REFL 2.31700X10⁺⁰⁰ FT.
 (BC1F03) 28 JUL 70 0.250 REFB 1.50000X10⁺⁰¹ FT.
 XHRP 1.38370X10⁺⁰⁰ IN.
 YHRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE : SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

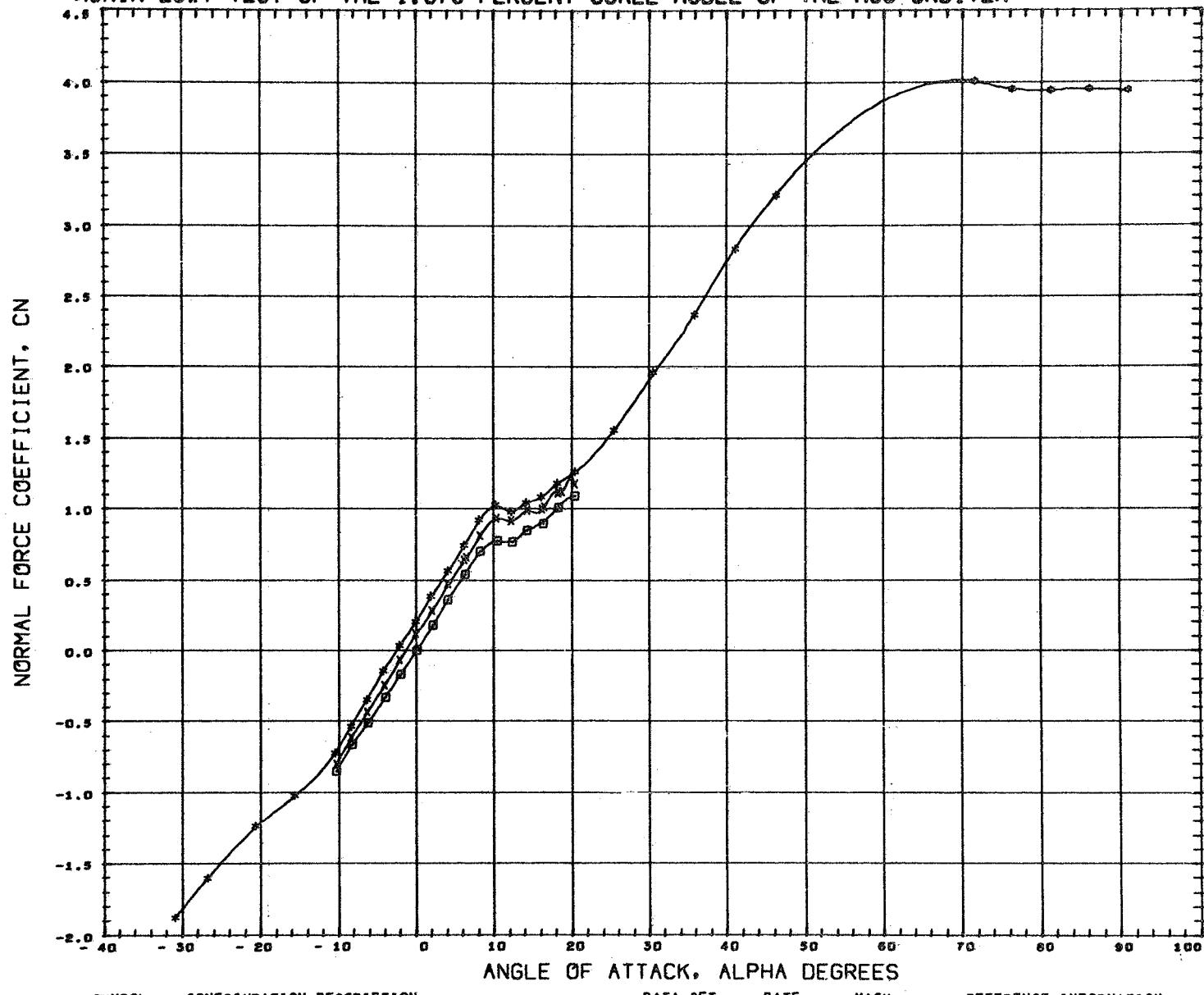


SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 X LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 O LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)

DATA SET DATE MACH REFERENCE INFORMATION
 (BC1F00) 28 JUL 70 0.250 REFS 3.20800X10⁻⁰¹ SQ.FT.
 (BC1F02) 28 JUL 70 0.250 REFL 2.31700X10⁻⁰¹ FT.
 (BC1F03) 28 JUL 70 0.250 REFB 1.50000X10⁺⁰⁰ FT.
 XMRF 1.38370X10⁺⁰¹ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZMRF 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

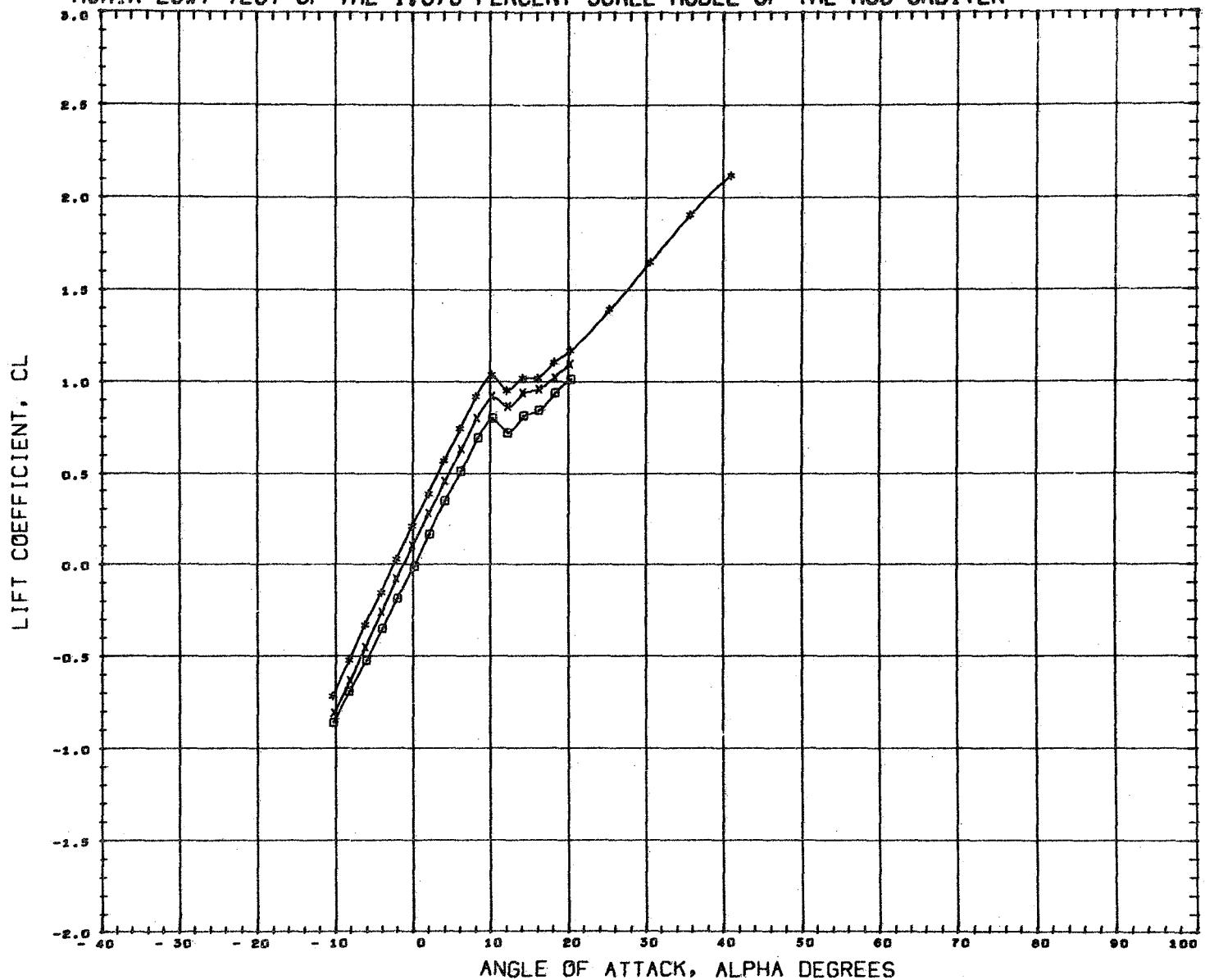


SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 X LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 G LSWT 223 1.875 FC MOD S5 ORB. B1H6V3W1 (FWD)

DATA SET DATE MACH REFERENCE INFORMATION
 (AC1F00) 28 JUL 70 0.250 REFS 3.20800X10⁻⁰¹ Sq.FT.
 (AC1F02) 28 JUL 70 0.250 REFL 2.31700X10⁺⁰⁰ FT.
 (AC1F03) 28 JUL 70 0.250 REFB 1.50000X10⁺⁰¹ FT.
 XMRP 1.38370X10⁺⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL . CONFIGURATION DESCRIPTION

* LSWT 223 1.875 FC MOD S5 ORB B1H6V3W1 (AFT)
 X LSWT 223 1.875 FC MOD S5 ORB B1H6V3W1 (AFT)
 O LSWT 223 1.875 FC MOD S5 ORB B1H6V3W1 (AFT)

DATA SET . DATE

(BC1A02) 28 JUL 70
 (BC1A01) 28 JUL 70
 (BC1A00) 28 JUL 70

MACH

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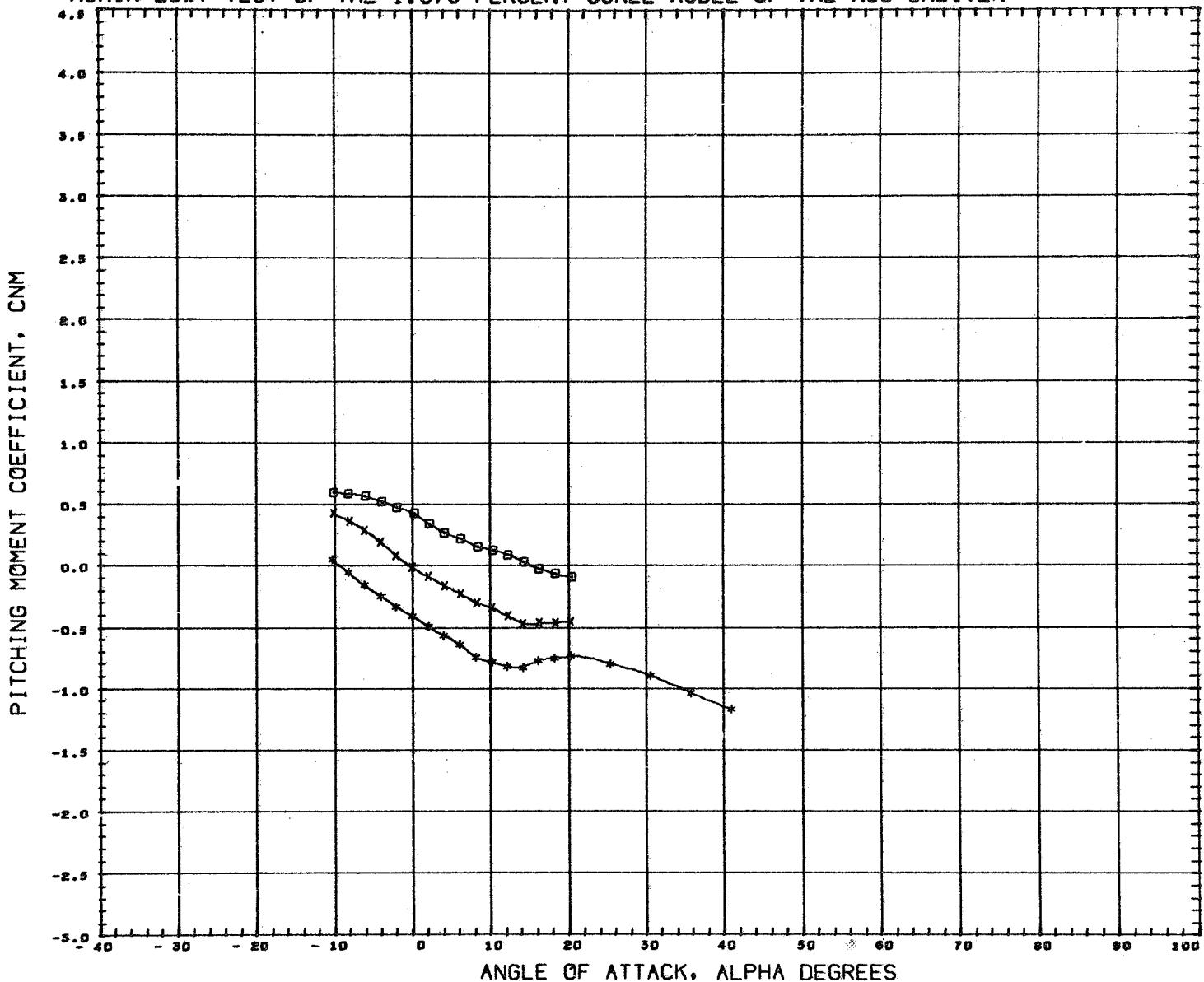
REFERENCE INFORMATION

REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XMRP 1.38370X10⁺⁰¹ IN.
 YMNP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

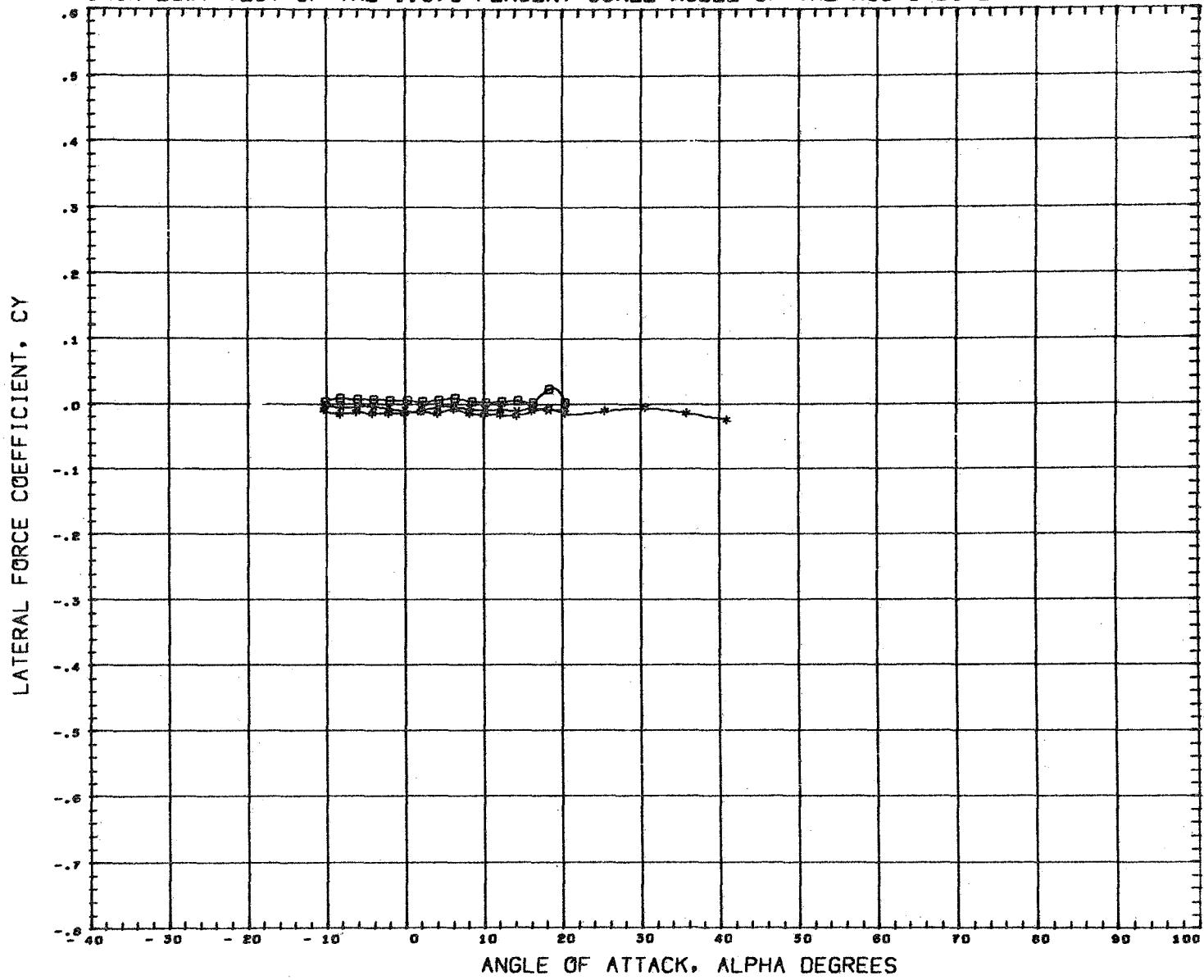
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A02)	28 JUL 70	0.250	REFS 3.20000X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A01)	28 JUL 70	0.250	REFL 2.31700X10 ⁺⁰⁰ FT.
S	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A00)	28 JUL 70	0.250	REFB 1.50000X10 ⁺⁰¹ FT.
					XMRP 1.38370X10 ⁺⁰¹ IN.
					YMRP 0.00000X10 ⁺⁰⁰ IN.
					ZMRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁰⁰ SCALE

REFERENCE FILE SDY 37100150

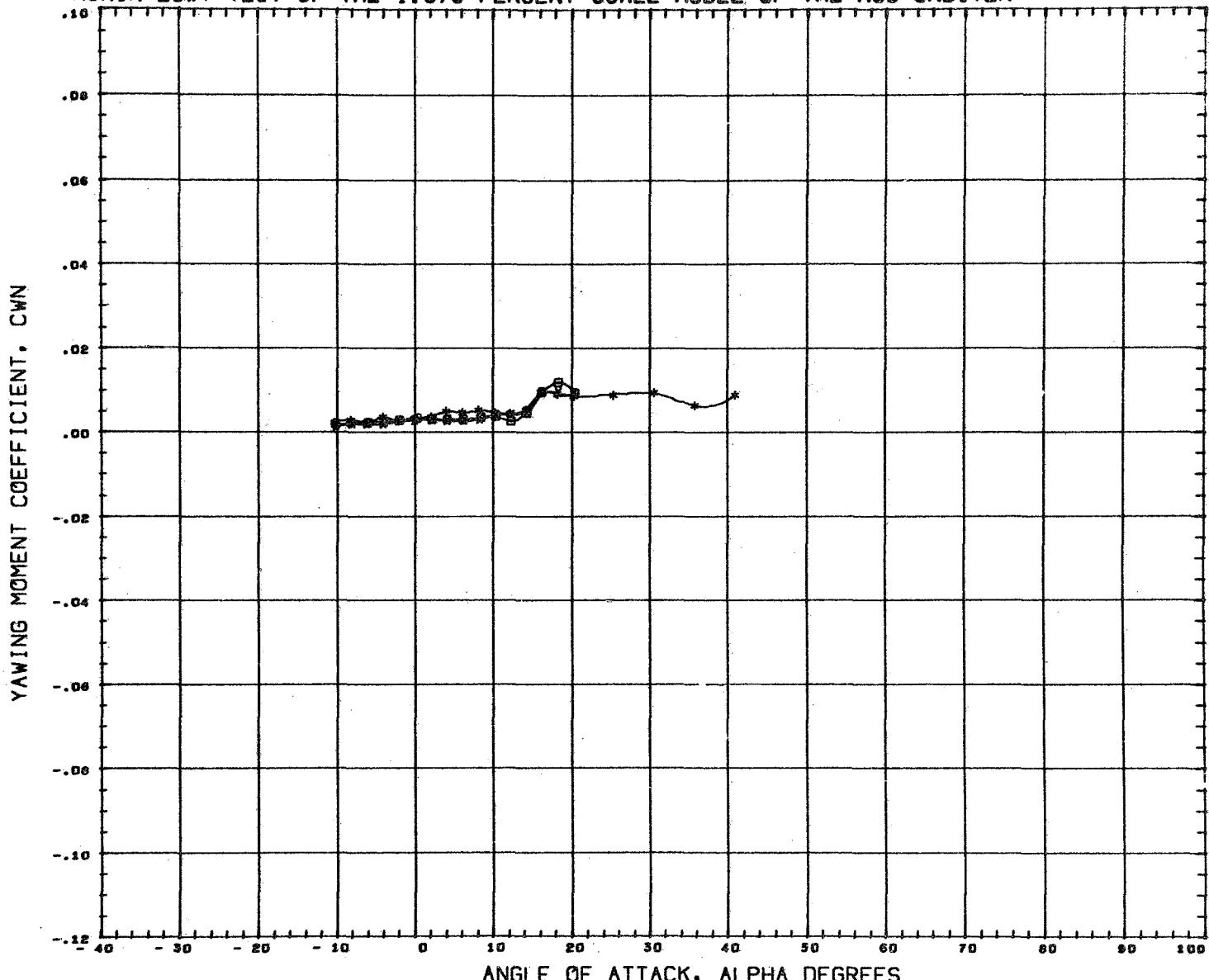
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH.	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A02)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ Sq.FT.
x	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A01)	28 JUL 70	0.250	REFL 2.31700X10 ⁺⁰⁰ FT.
o	LSWT 223 1.875 FC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A00)	28 JUL 70	0.250	REFB 1.50000X10 ⁺⁰⁰ FT. XHRF 1.38370X10 ⁺⁰¹ IN. YHRF 0.00000X10 ⁺⁰⁰ IN. ZHRF 2.40000X10 ⁻⁰² IN. SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37160150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

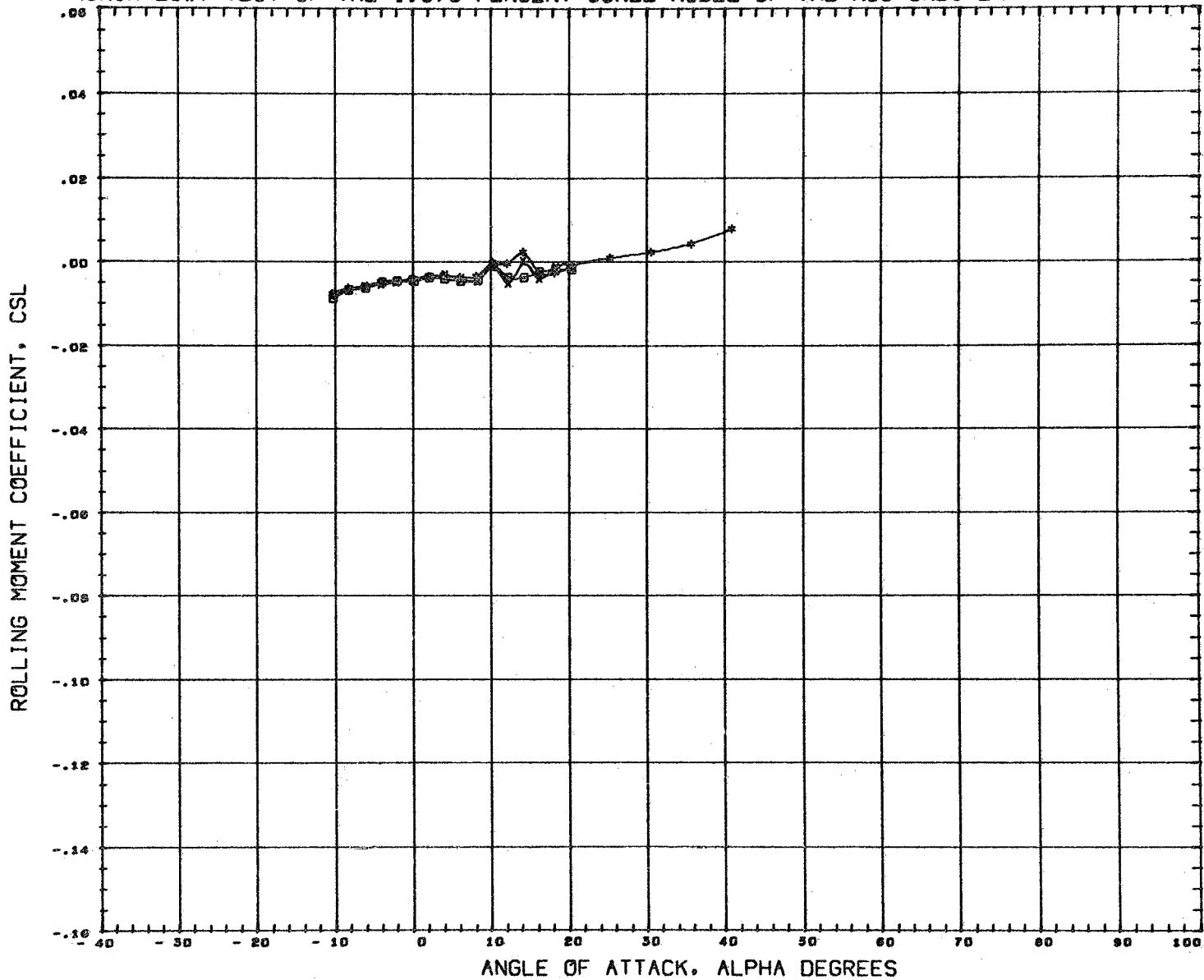


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A02)	28 JUL 70	0.250	REFS 3.20800×10^{-01} SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A01)	28 JUL 70		REFL $2.31700 \times 10^{+00}$ FT.
G	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A00)	28 JUL 70		REFB $1.50000 \times 10^{+01}$ FT.

REFERENCE FILE SDY 37100150

SCALE 1.87500×10^{-02} IN. SCALE

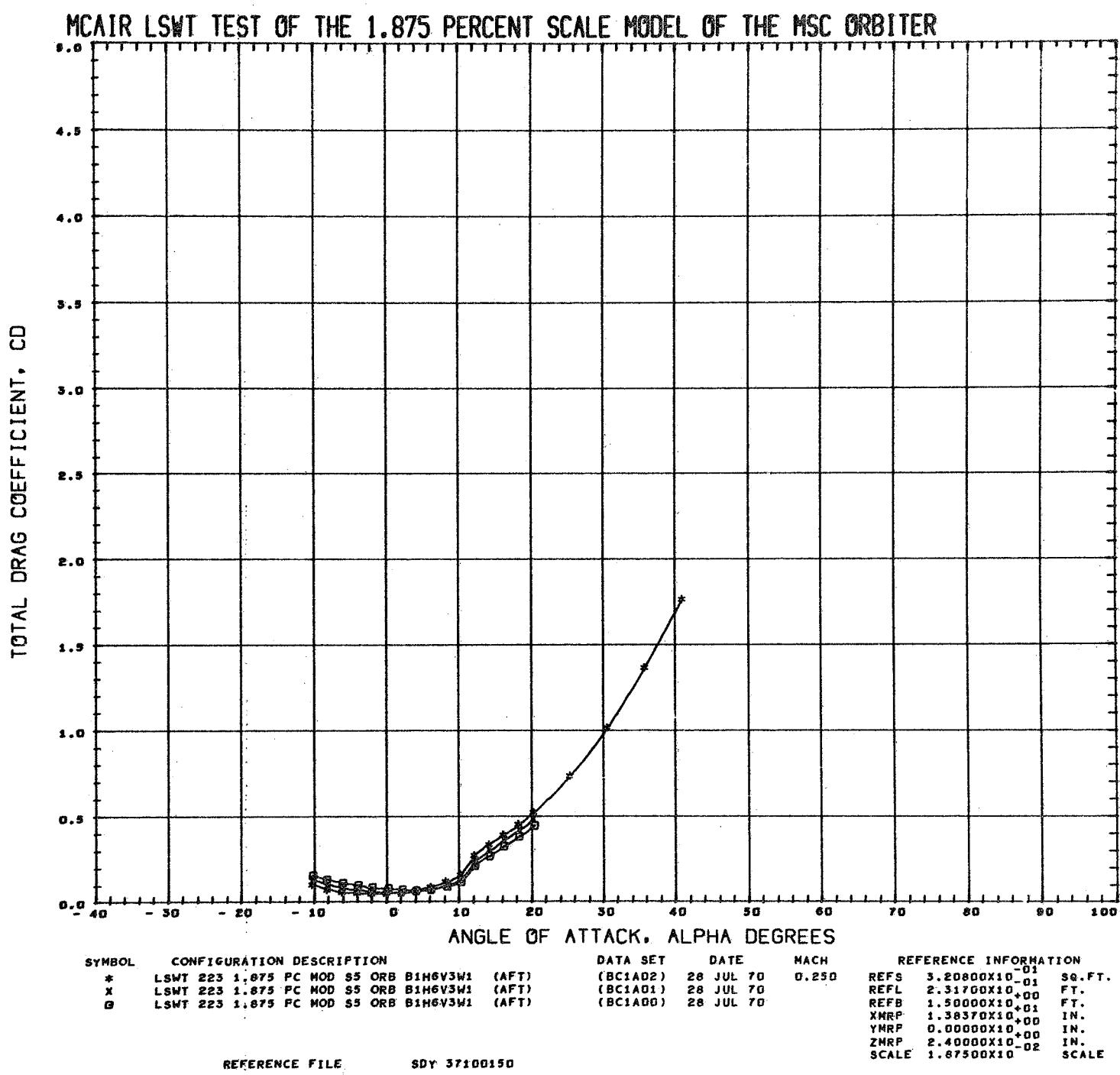
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



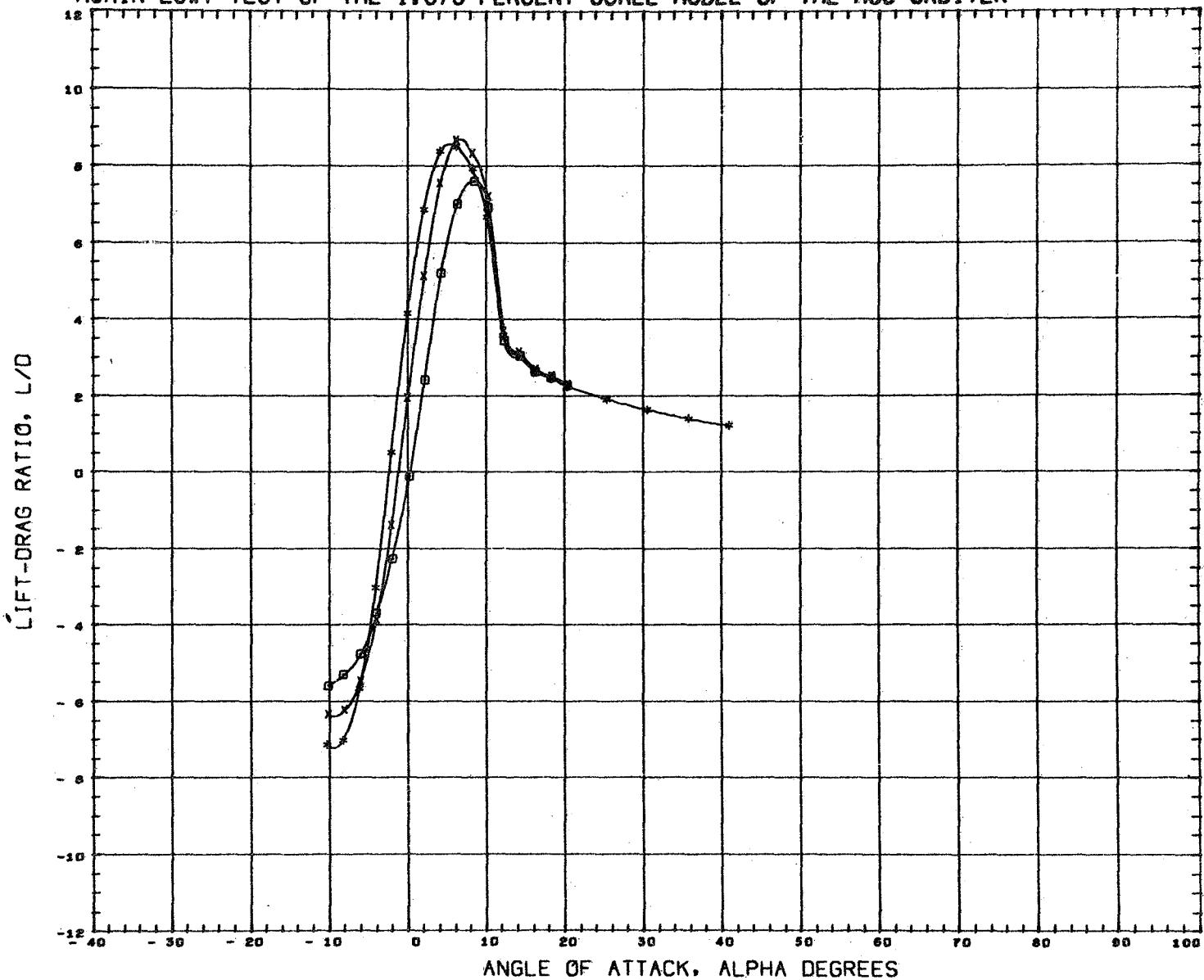
SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH.	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A02)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ Sq.FT.
X	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A01)	28 JUL 70	0.250	REFL 2.31700X10 ⁻⁰⁰ FT.
Θ	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A00)	28 JUL 70	0.250	REFB 1.50000X10 ⁻⁰⁰ FT.
					XHRF 1.38370X10 ⁺⁰⁰ IN.
					YHRF 0.00000X10 ⁺⁰⁰ IN.
					ZHRF 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150



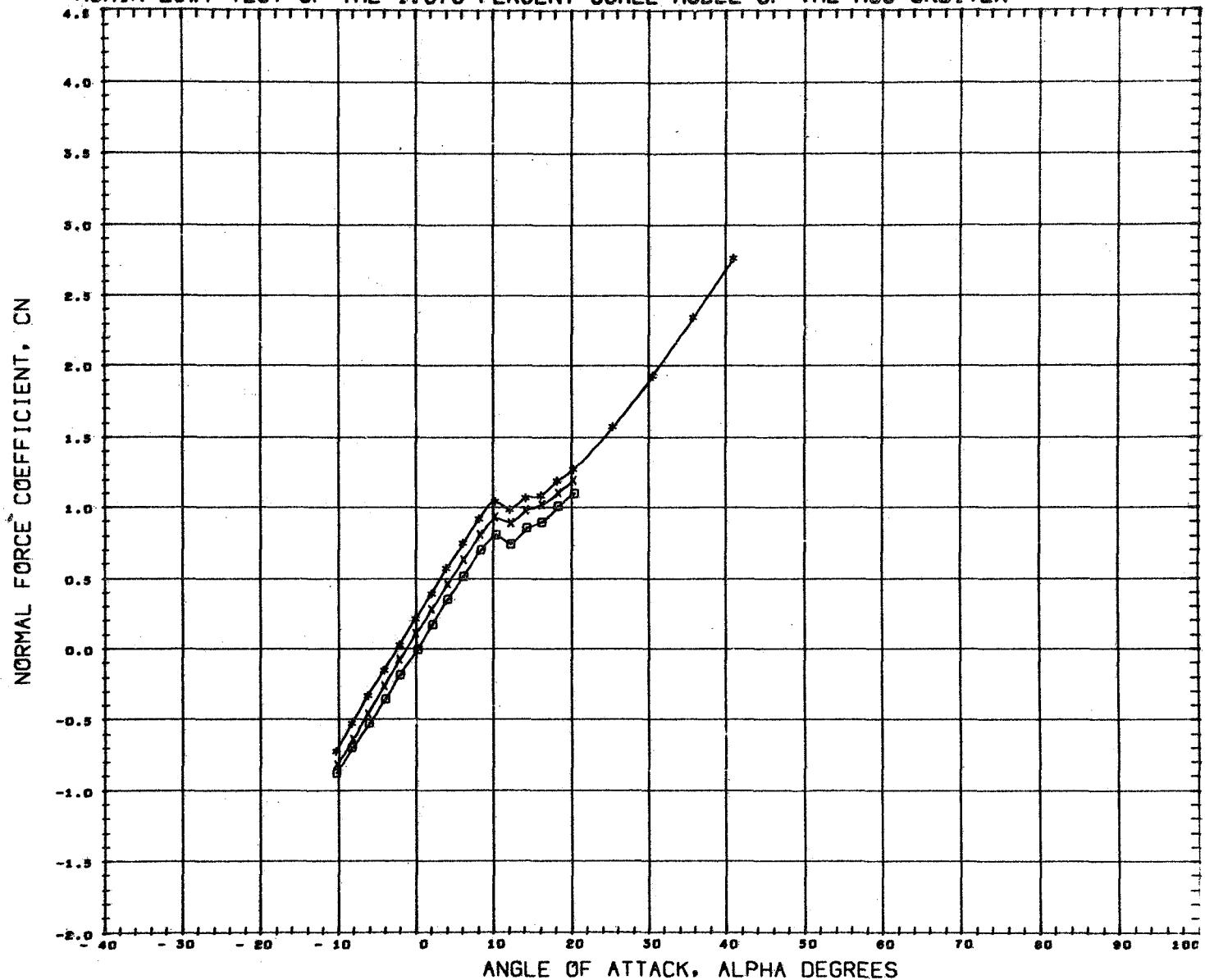
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A02)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SA. FT.
x	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A01)	28 JUL 70	0.250	REFL 2.31700X10 ⁻⁰¹ FT.
o	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A00)	28 JUL 70	0.250	REFB 1.50000X10 ⁺⁰⁰ FT. XNRP 1.38370X10 ⁺⁰¹ IN. YNRP 0.00000X10 ⁺⁰⁰ IN. ZNRP 2.40000X10 ⁻⁰² IN. SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

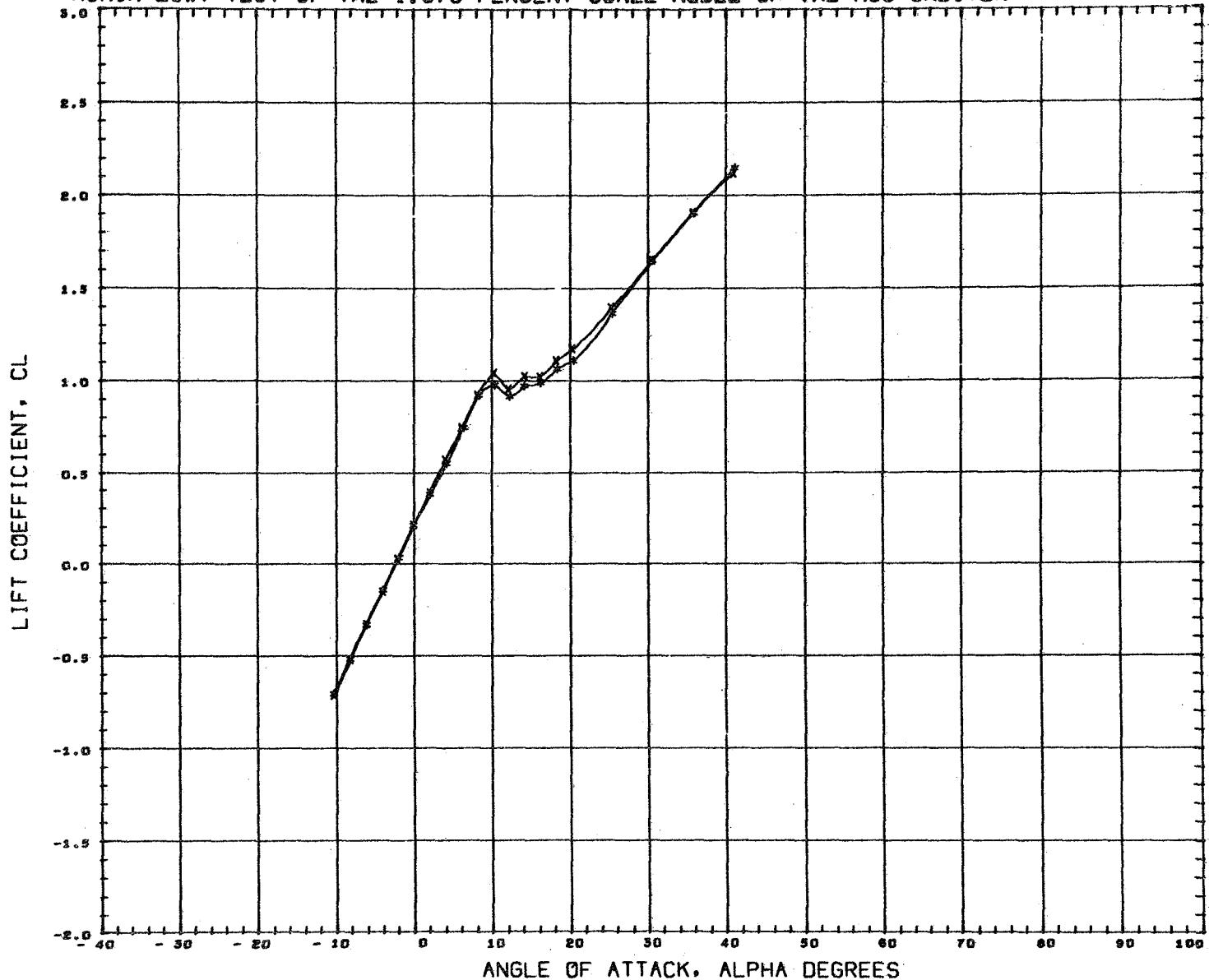


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(AC1A02)	28 JUL 70	0.250	REFS 3.20800×10^{-01} SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(AC1A01)	28 JUL 70		REFL $2.31700 \times 10^{+00}$ FT.
□	LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)	(AC1A00)	28 JUL 70		REFB $1.50000 \times 10^{+00}$ FT.

REFERENCE FILE SDY 37100150

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



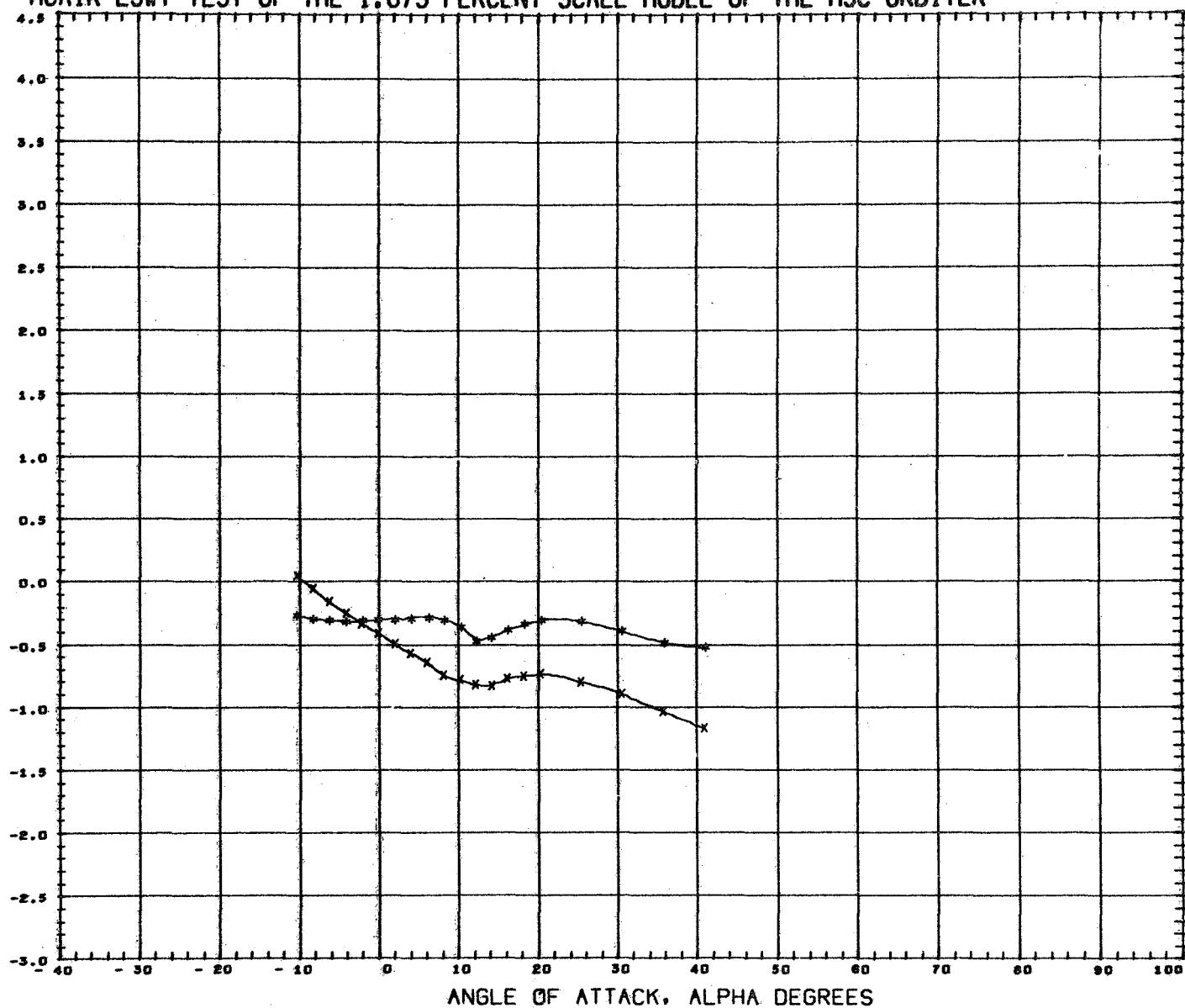
SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 X LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)

DATA SET DATE MACH REFERENCE INFORMATION
 (BC1F10) 28 JUL 70 0.250 REFS 3.20000X10⁻⁰¹ SG.FT.
 (BC1A02) 28 JUL 70 0.250 REFL 2.31700X10⁺⁰⁰ FT.
 REFB 1.50000X10⁺⁰¹ FT.
 XMRF 1.38370X10⁺⁰¹ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZNRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CNM



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 x LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)

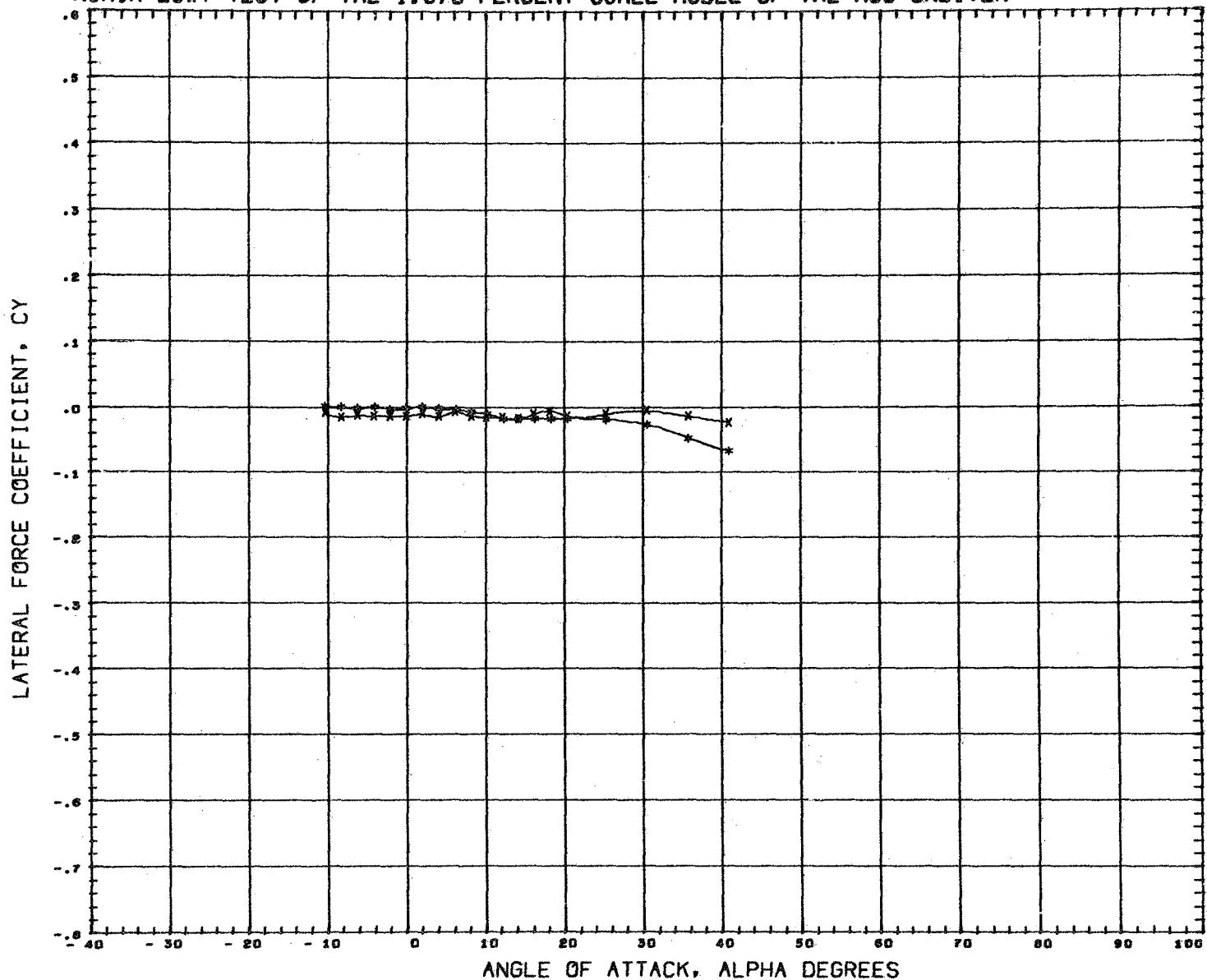
DATA SET DATE MACH
 (BC1F1D) 28 JUL 70 0.250
 (BC1A02) 28 JUL 70

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁺⁰⁰ FT.
 REFb 1.50000X10⁺⁰¹ FT.
 XMRP 1.38370X10⁺⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁺⁰⁰ IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 X LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)

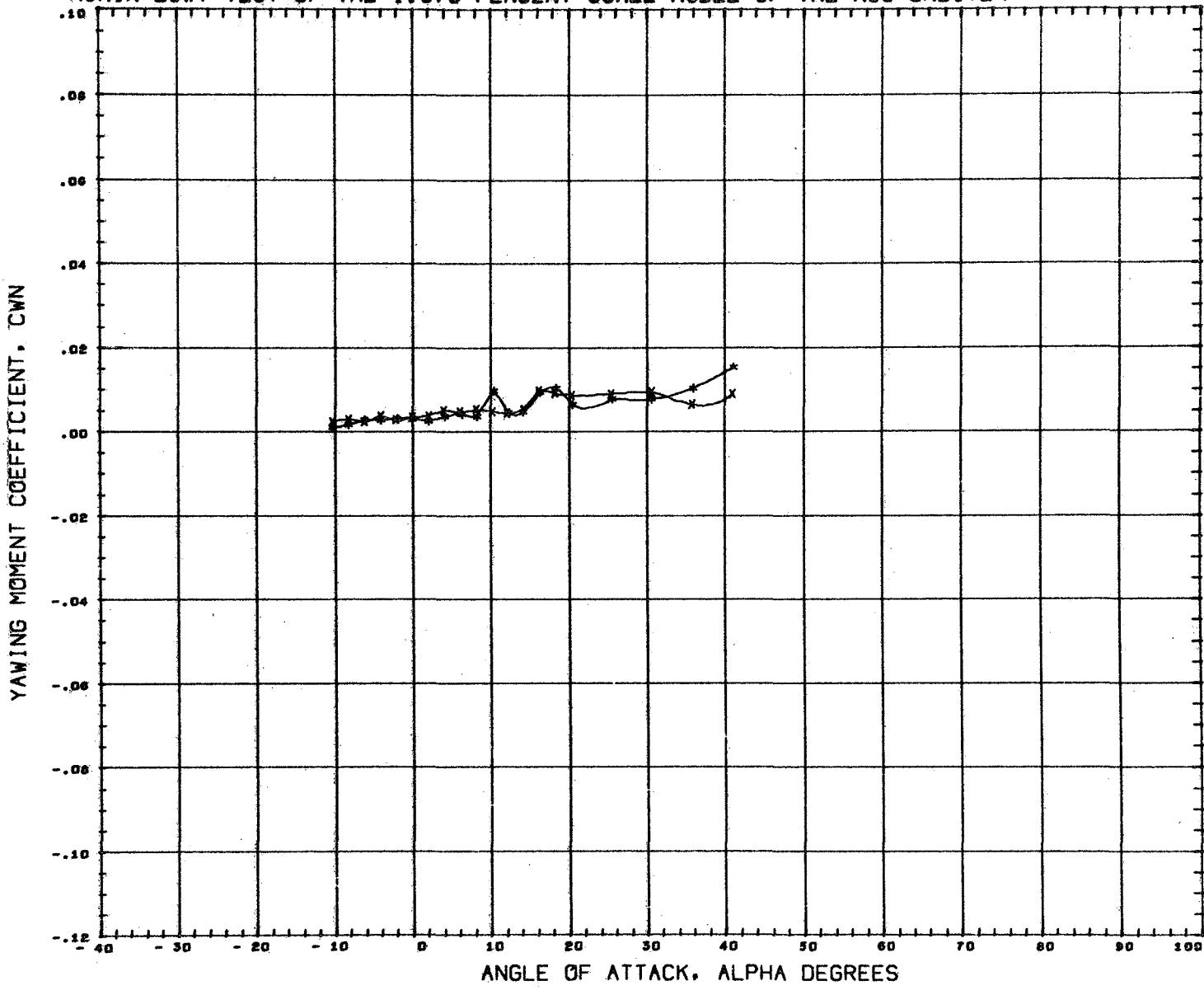
DATA SET DATE MACH
 (BC1F10) 28 JUL 70 0.250
 (BC1A02) 28 JUL 70

REFERENCE INFORMATION
 REFS 3.20800×10^{-01} 50. FT.
 REFL $2.31700 \times 10^{+00}$ FT.
 REFB $1.50000 \times 10^{+01}$ FT.
 XMRP $1.36370 \times 10^{+01}$ IN.
 YMRP $0.00000 \times 10^{+00}$ IN.
 ZMRP $2.40000 \times 10^{+00}$ IN.
 SCALE 1.87500×10^{-02} SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

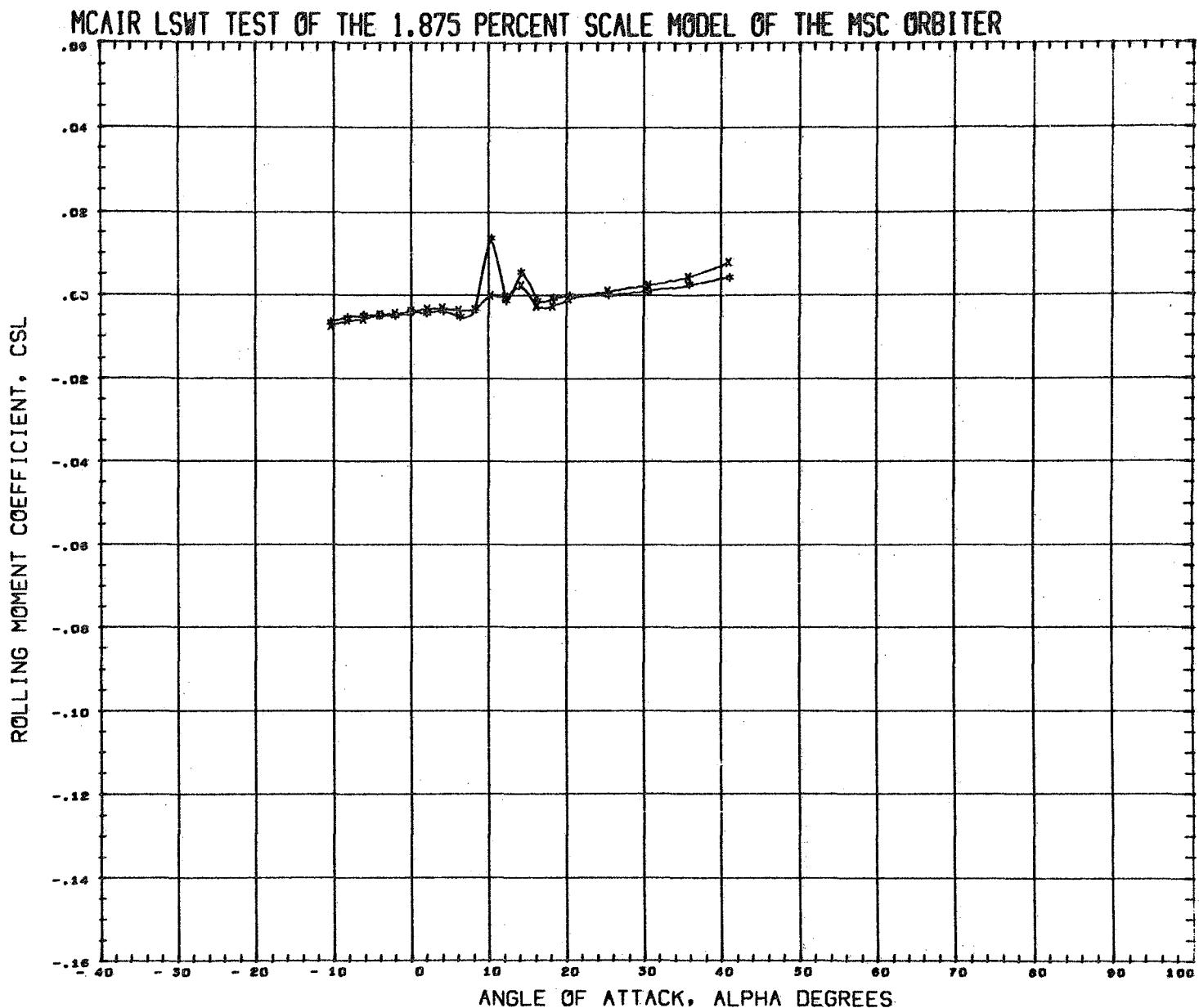


SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 x LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)

DATA SET DATE MACH
 (BC1F1D) 28 JUL 70 0.250
 (BC1A02) 28 JUL 70

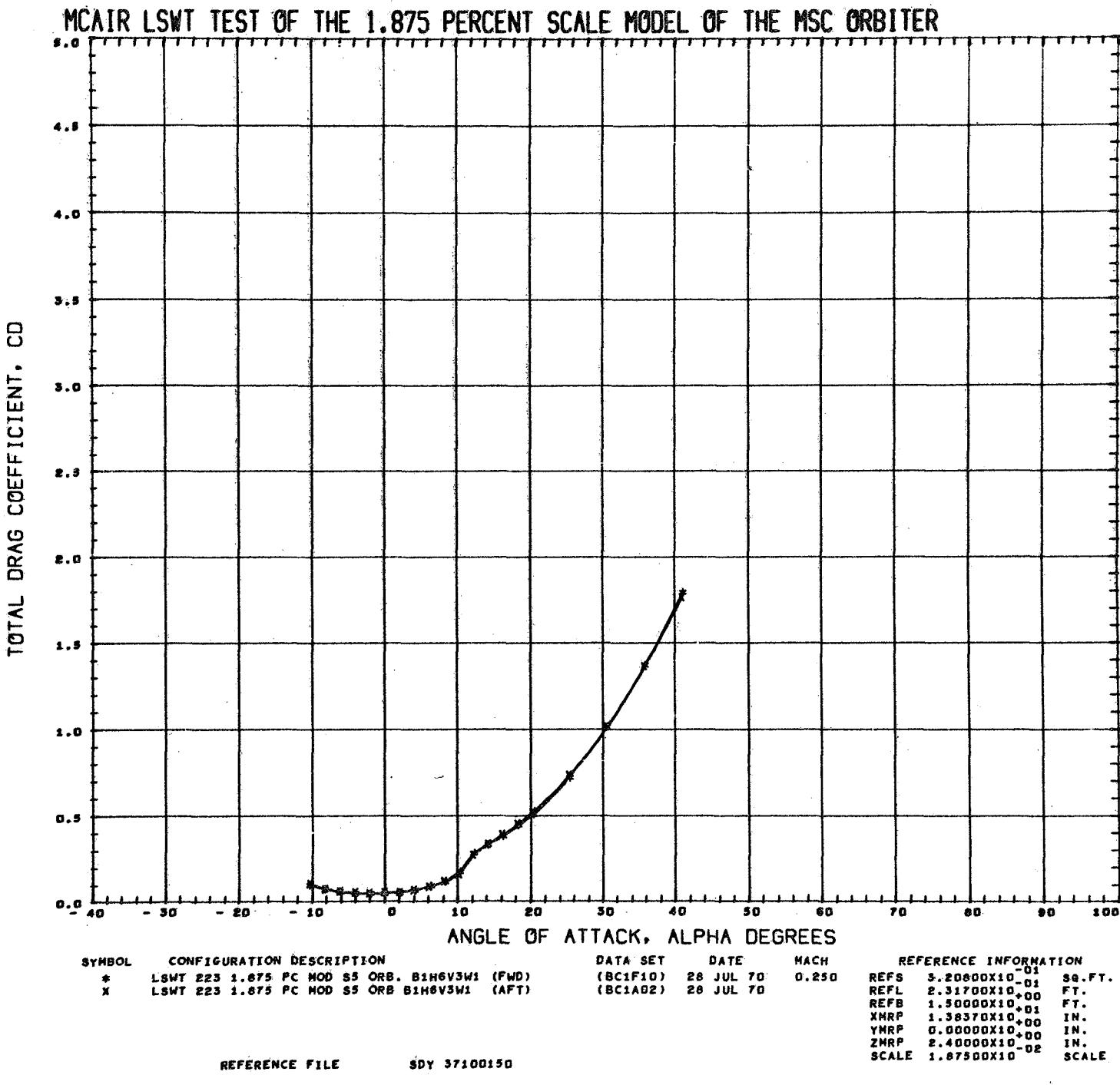
REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁺⁰⁰ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XHRP 1.38370X10⁺⁰¹ IN.
 YHRP 0.00000X10⁺⁰⁰ IN.
 ZHRP 2.40000X10⁺⁰⁰ IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

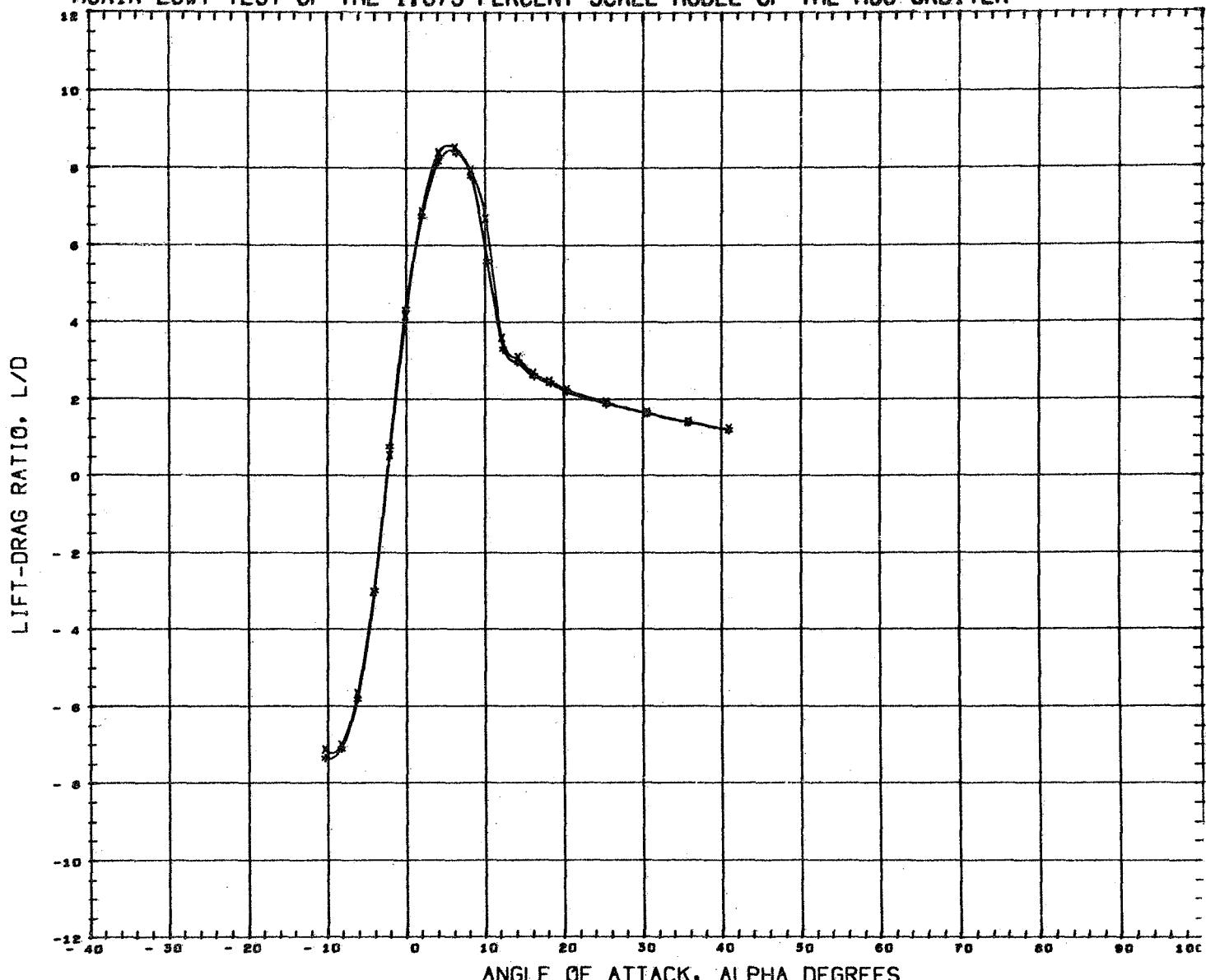


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD SS ORB. B1H6V3W1 (FWD)	(BC1F10)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
x	LSWT 223 1.875 PC MOD SS ORB B1H6V3W1 (AFT)	(BC1A02)	28 JUL 70	0.250	REFL 2.31700X10 ⁺⁰⁰ FT.
					REFB 1.50000X10 ⁺⁰⁰ FT.
					XHRP 1.38370X10 ⁺⁰¹ IN.
					YHRP 0.00000X10 ⁺⁰⁰ IN.
					ZHRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150



MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



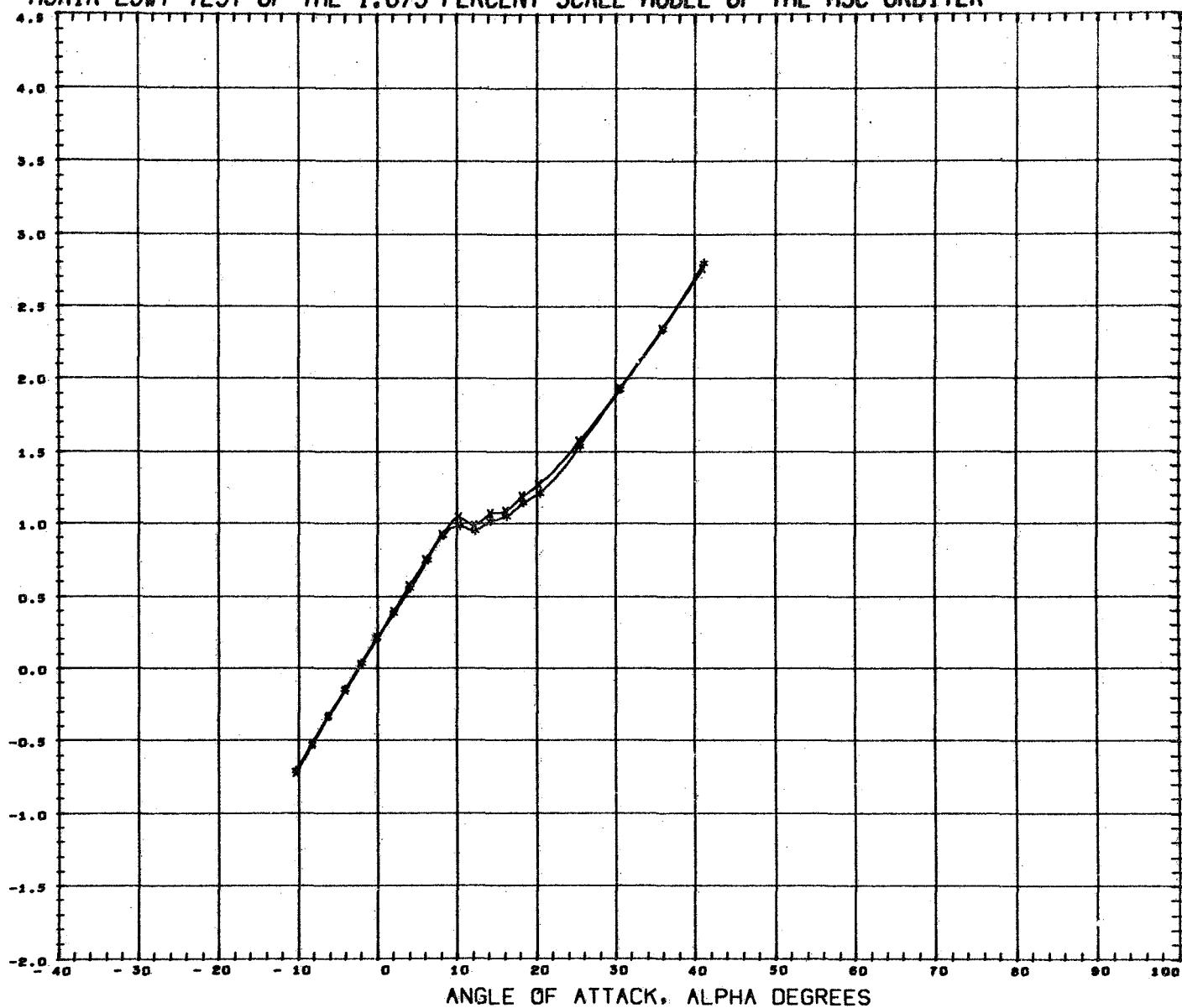
SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 FC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F10)	28 JUL 70	0.250	REFS 3.20800×10^{-01} Sq. FT.
X	LSWT 223 1.875 FC MOD S5 ORB B1H6V3W1 (AFT)	(BC1A02)	28 JUL 70	0.250	REFL 2.31700×10^{-01} FT.
					REFB $1.50000 \times 10^{+00}$ FT.
					XHRF $1.58370 \times 10^{+01}$ IN.
					YHRF $0.00000 \times 10^{+00}$ IN.
					ZHRF $2.40000 \times 10^{+00}$ IN.
					SCALE 1.87500×10^{-02} SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

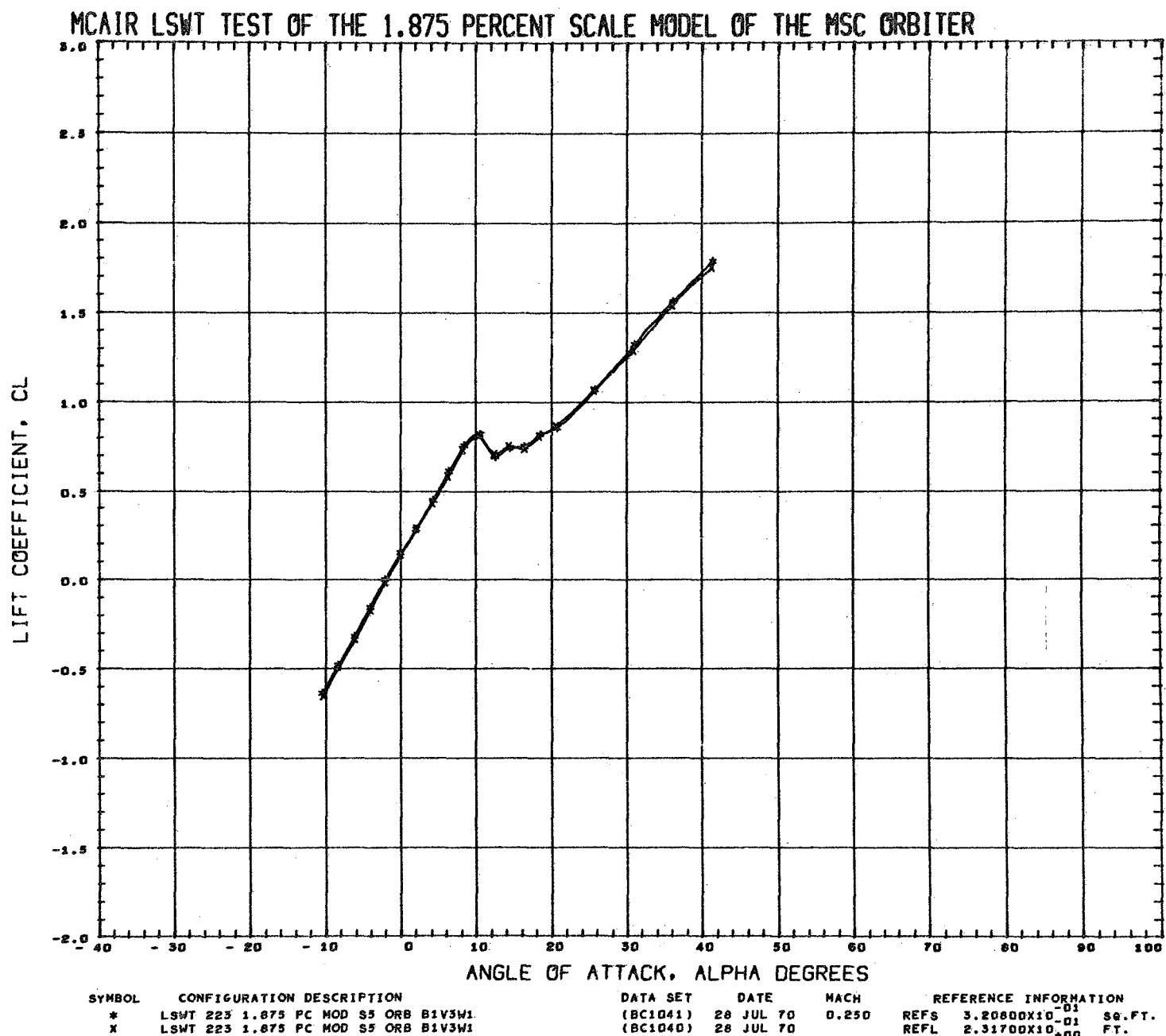
NORMAL FORCE COEFFICIENT, CN



SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 X LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)

DATA SET DATE MACH REFERENCE INFORMATION
 (AC1F10) 28 JUL 70 0.250 REFS 3.20800X10⁻⁰¹ SQ.FT.
 (AC1A02) 28 JUL 70 0.250 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XHRF 1.38370X10⁺⁰¹ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZHRF 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150



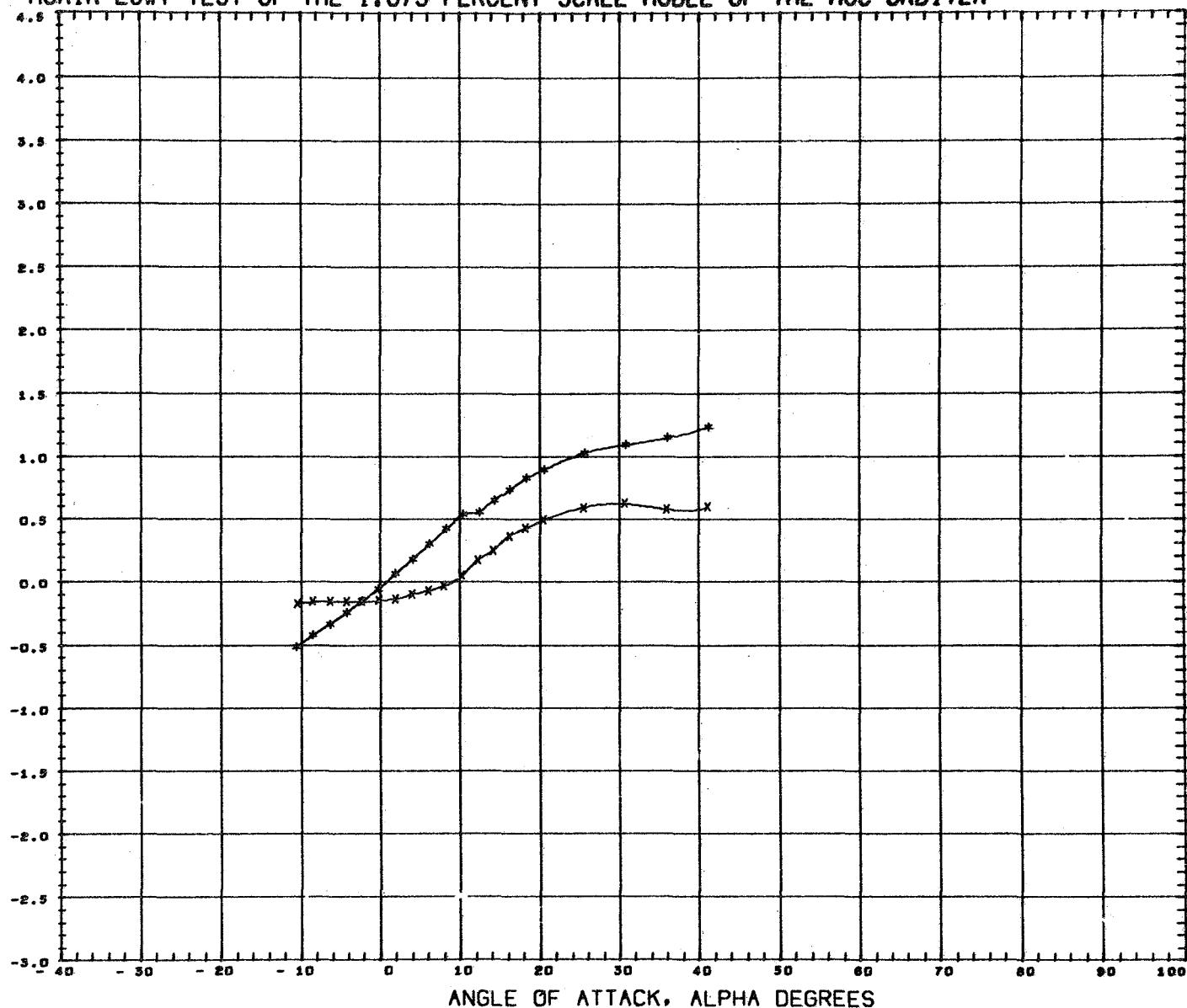
SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB B1V3W1.
 X LSWT 223 1.875 PC MOD S5 ORB B1V3W1

DATA SET DATE MACH REFERENCE INFORMATION
 (BC1041) 28 JUL 70 0.250 REFS 3.20800X10⁻⁰¹ Sq.FT.
 (BC1040) 28 JUL 70 0.250 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XMRP 1.38370X10⁺⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CM



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB B1V3W1
 x LSWT 223 1.875 PC MOD S5 ORB B1V3W1

DATA SET DATE MACH
 (BC1041) 28 JUL 70 0.250
 (BC1040) 28 JUL 70

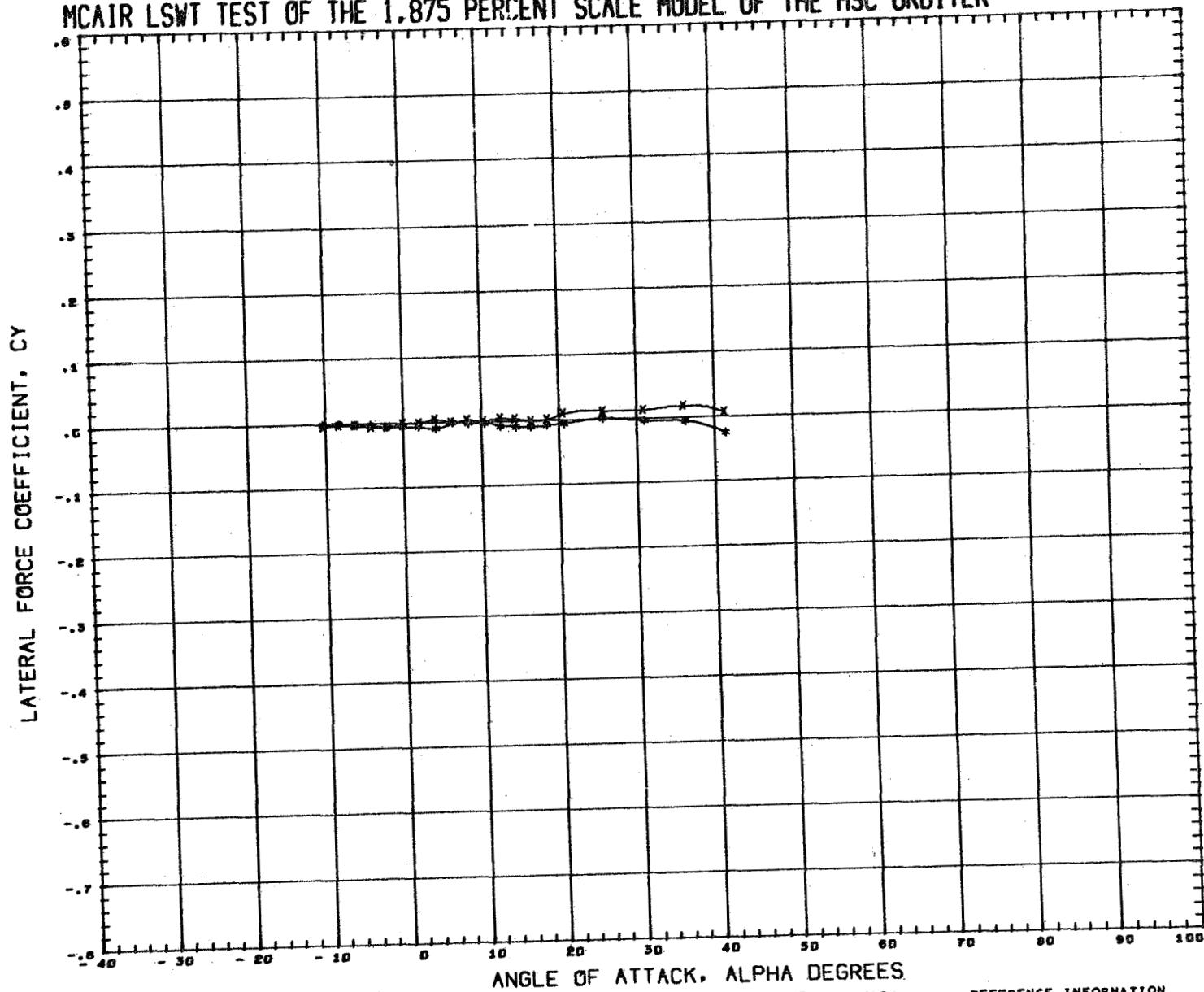
REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SE.FT.
 REFL 2.31700X10⁺⁰⁰ FT.
 REFB 1.50000X10⁺⁰¹ FT.
 XMRP 1.38370X10⁺⁰¹ IN.
 YMNP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁺⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB B1V3W1
 x LSWT 223 1.875 PC MOD S5 ORB B1V3W1

DATA SET DATE MACH
 (BC1041) 28 JUL 70 0.250
 (BC1040) 28 JUL 70

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁺⁰⁰ FT.
 REFB 1.50000X10⁺⁰¹ FT.
 XHRF 1.38370X10⁺⁰¹ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZHRF 2.40000X10⁺⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

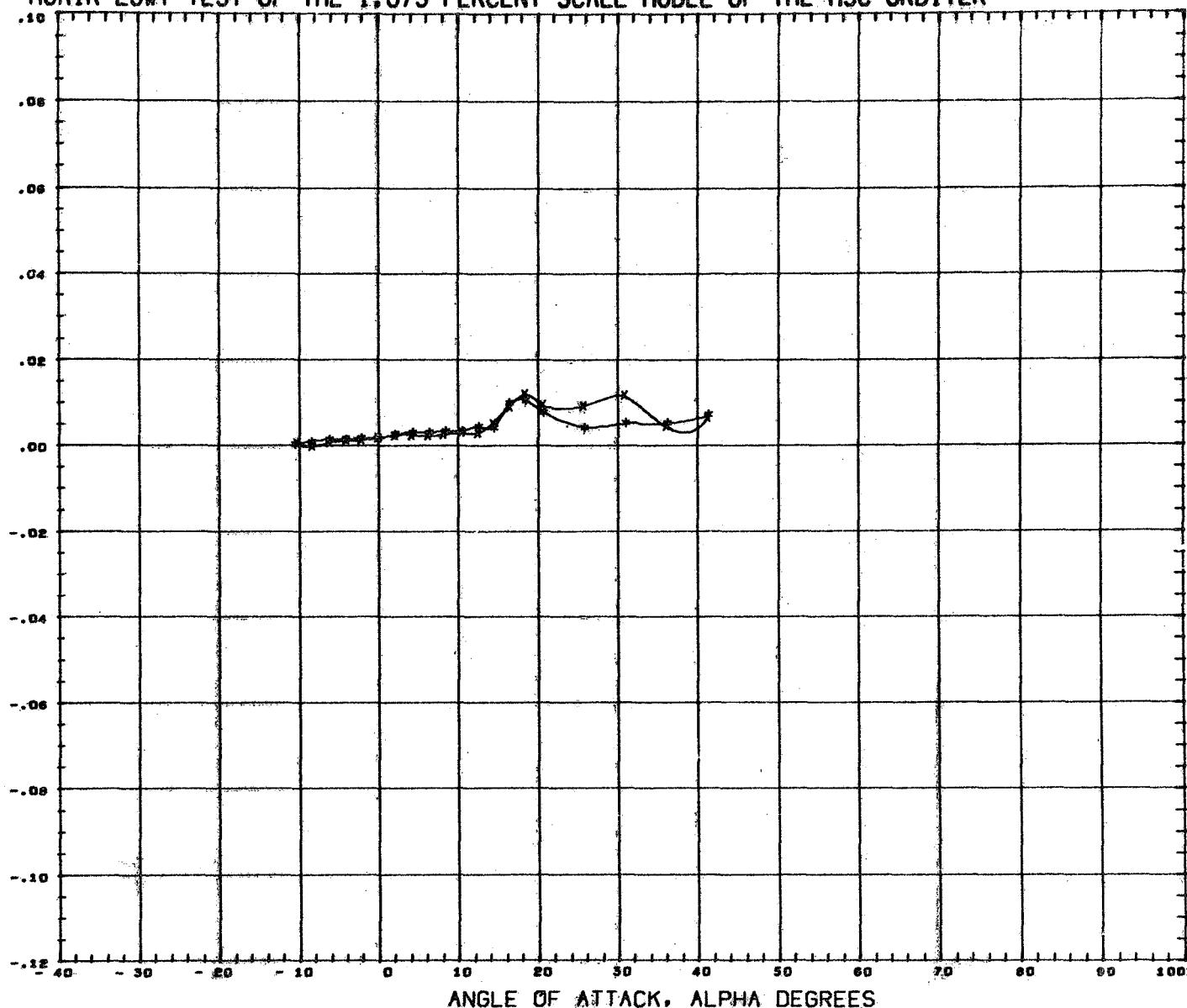
REFERENCE FILE

SDY 37100150

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MCAIR LSWT TEST OF THE 1,875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, CWN



ANGLE OF ATTACK, ALPHA DEGREES

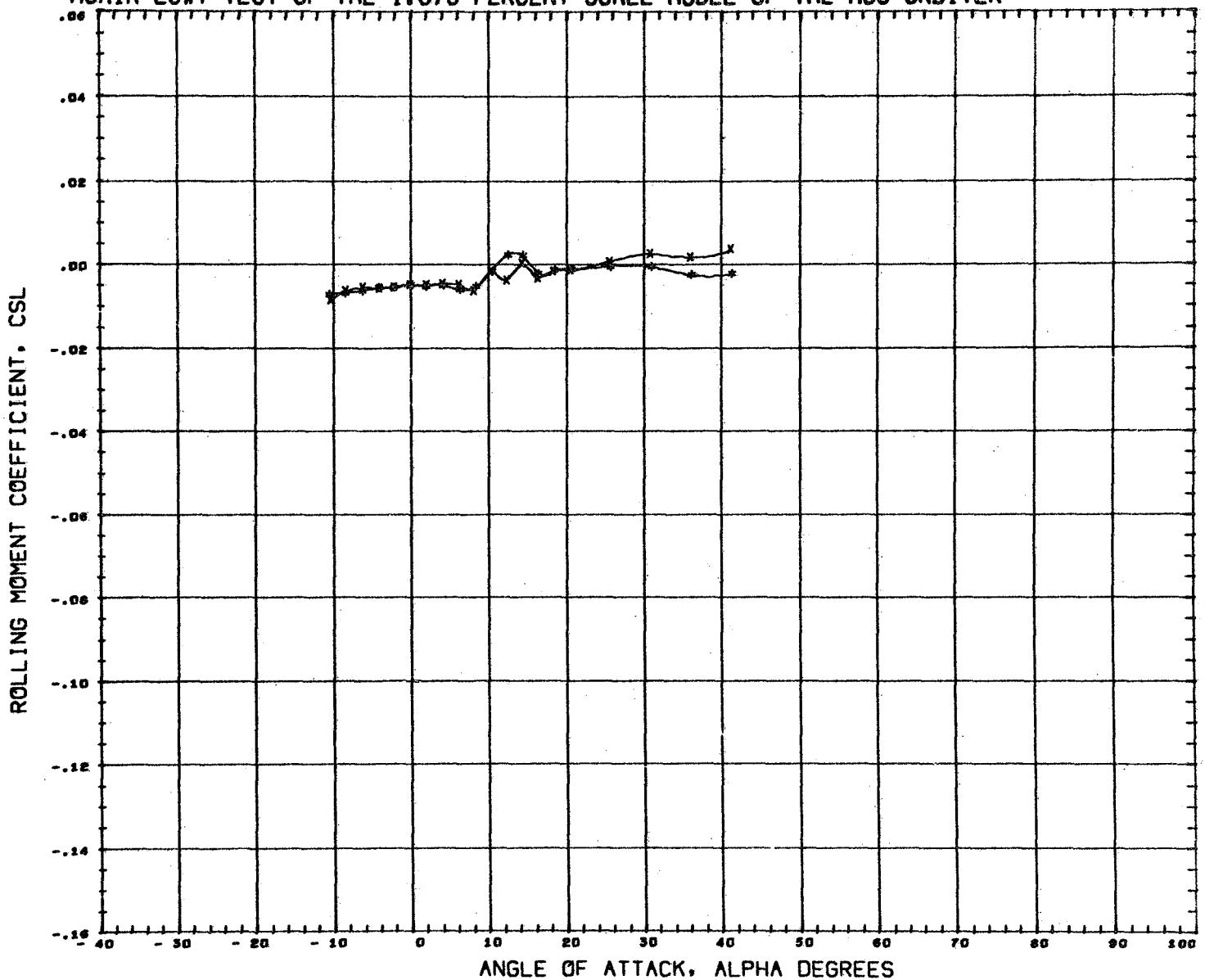
SYMBOL CONFIGURATION DESCRIPTION
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 X LSWT 223 1,875 %C MOD S5 ORB B1V3W1

DATA SET DATE MACH
 (BC1041) 28 JUL 70 0.250
 (BC1040) 28 JUL 70

REFERENCE INFORMATION
 REFS 3.20800×10^{-01} SQ. FT.
 REFL 2.31700×10^{-01} FT.
 REFB $1.50000 \times 10^{+00}$ FT.
 XHRP $1.38370 \times 10^{+01}$ IN.
 YMHP $0.00000 \times 10^{+00}$ IN.
 ZHRP 2.40000×10^{-02} IN.
 SCALE 1.87500×10^{-02} SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



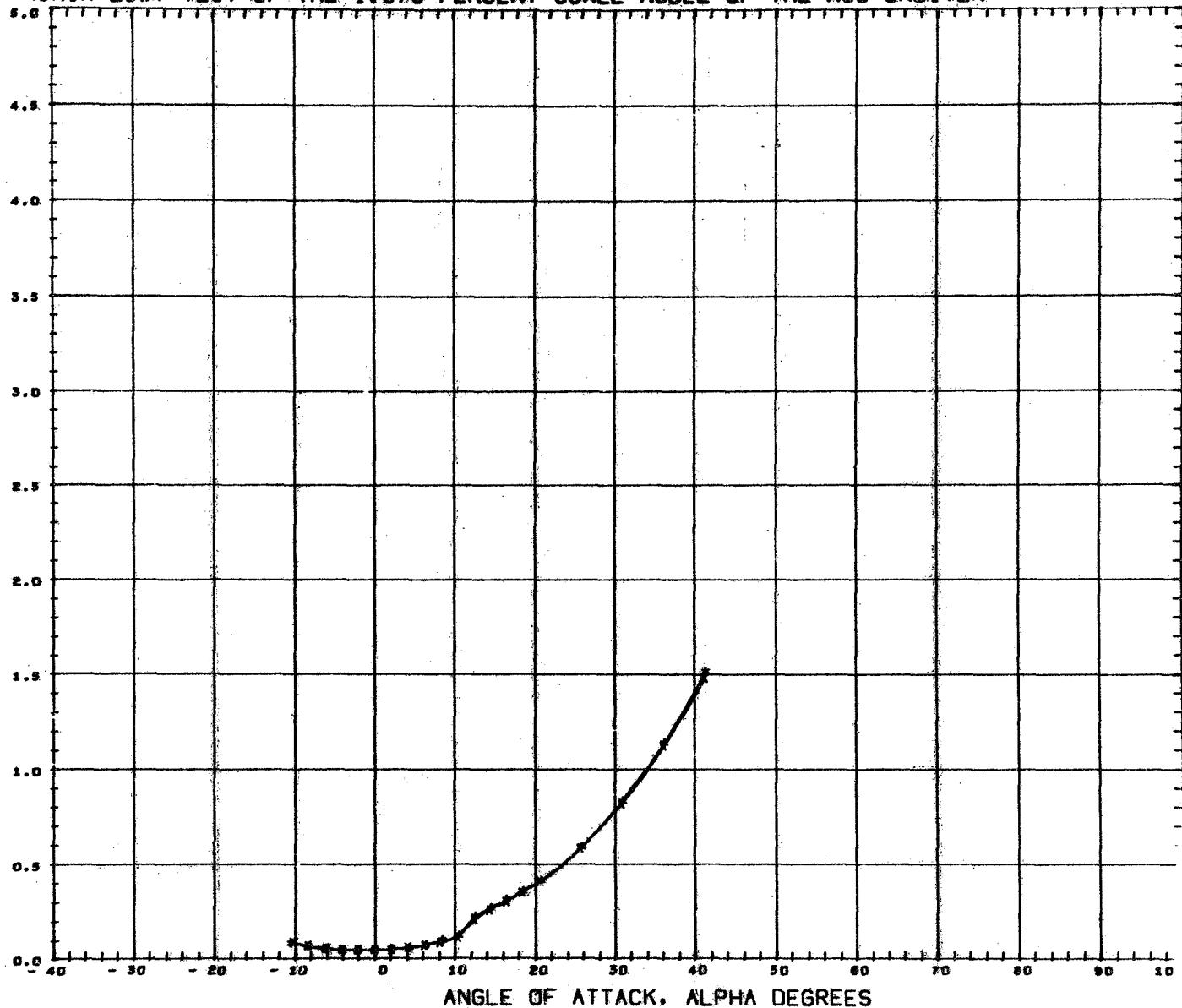
SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD SS ORB B1V3W1
 x LSWT 223 1.875 PC MOD SS ORB B1V3W1

DATA SET DATE MACH. REFERENCE INFORMATION
 (BC1041) 28 JUL 70 0.250 REFS 3.20800X10⁻⁰¹ SQ.FT.
 (BC1040) 28 JUL 70 0.250 REFL 2.51700X10⁺⁰⁰ FT.
 REFB 1.50000X10⁺⁰¹ FT.
 XNRP 1.38370X10⁺⁰⁰ IN.
 YNRP 0.00000X10⁺⁰⁰ IN.
 ZNRP 2.40000X10⁺⁰⁰ IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

TOTAL DRAG COEFFICIENT, CD

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB B1V3M1
 X LSWT 223 1.875 PC MOD S5 ORB B1V3M1

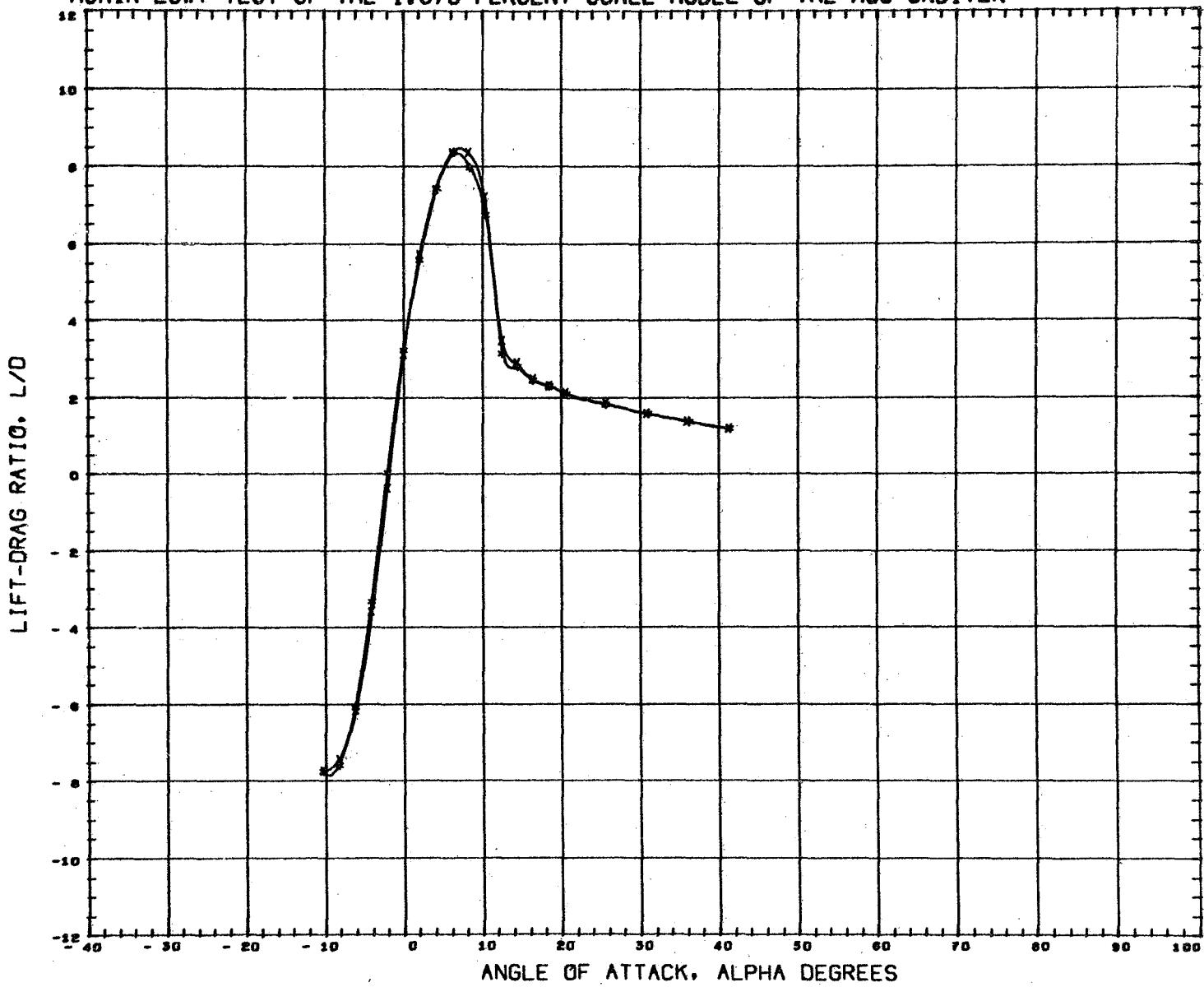
DATA SET DATE MACH
 (BC1041) 28 JUL 70 0.250
 (BC1040) 28 JUL 70

REFERENCE INFORMATION
 REFS 3.20600X10⁻⁰¹ SG.FT
 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XHYP 1.36370X10⁺⁰¹ IN.
 YHYP 0.00000X10⁺⁰⁰ IN.
 ZHYP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



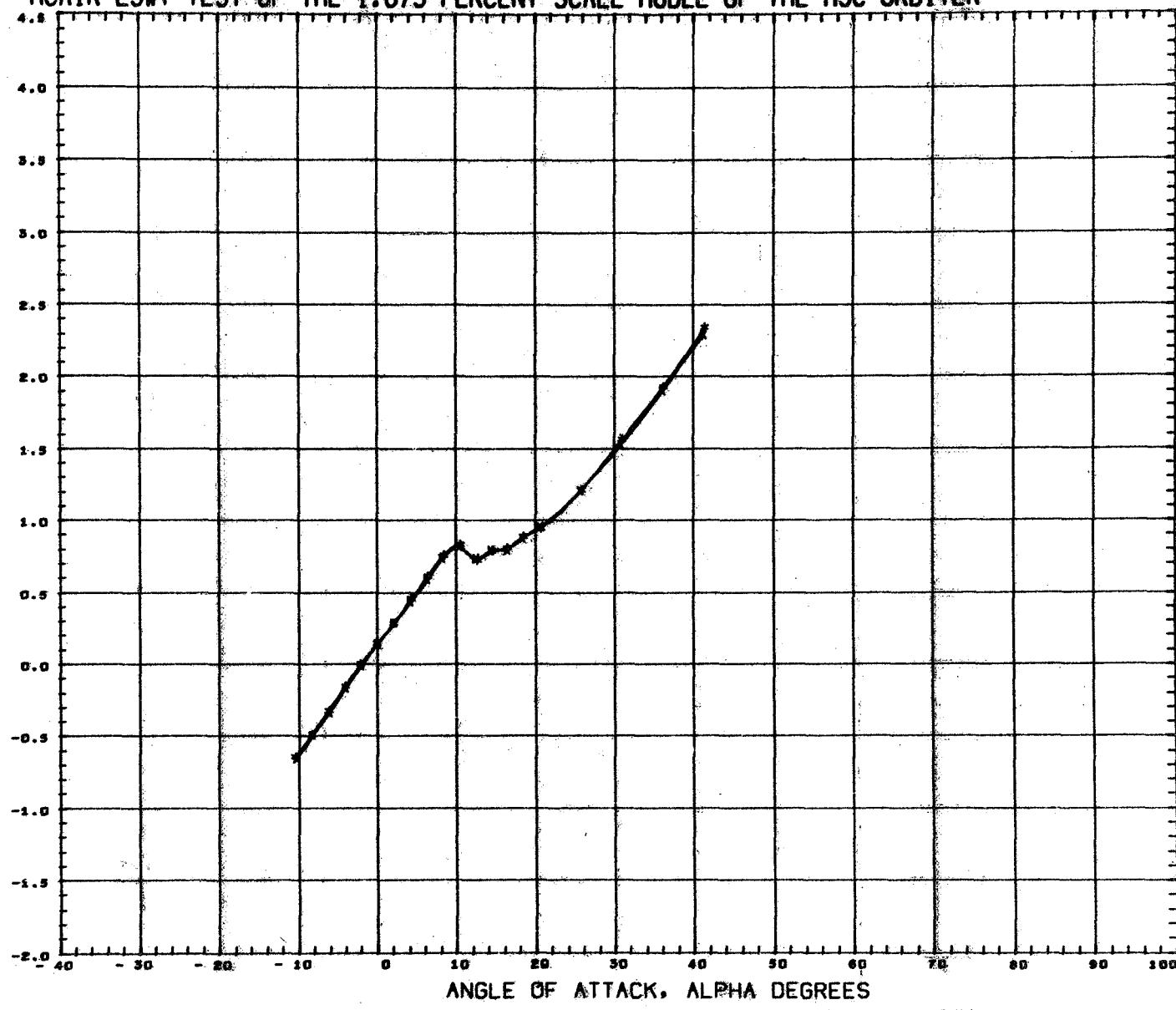
SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB B1V3W1
 X LSWT 223 1.875 PC MOD S5 ORB B1V3W1

DATA SET DATE MACH REFERENCE INFORMATION
 (BC1041) 28 JUL 70 0.250 REFS 3.20000×10^{-01} SQ.FT.
 (BC1040) 28 JUL 70 0.250 REFL 2.31700×10^{-01} FT.
 REFB $1.50000 \times 10^{+00}$ FT.
 XNRP $1.38370 \times 10^{+00}$ IN.
 YNRP $0.00000 \times 10^{+00}$ IN.
 ZNRP 2.40000×10^{-02} IN.
 SCALE 1.87500×10^{-02} SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

NORMAL FORCE COEFFICIENT, CN



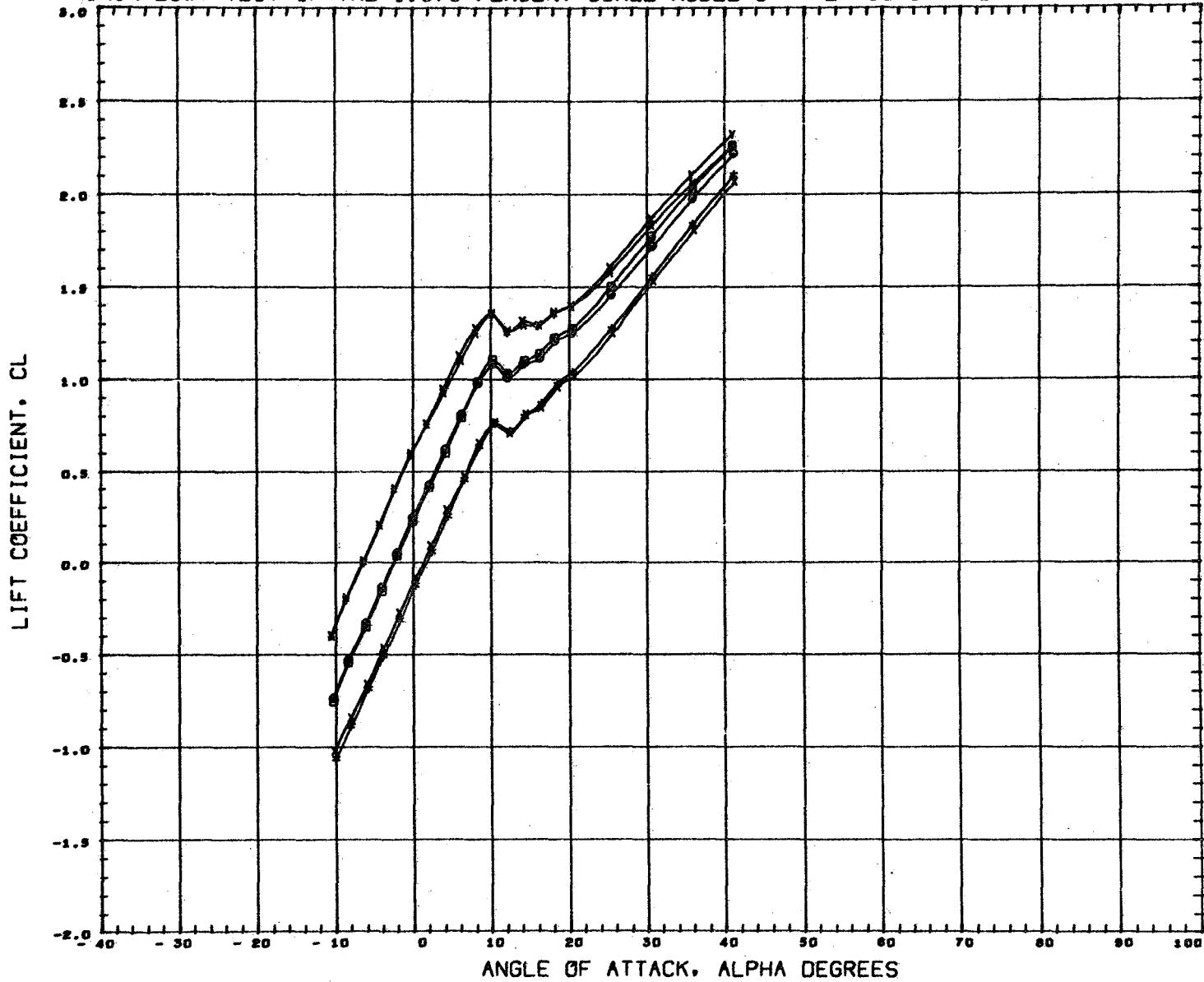
SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875% PC MOD SS ORB B1V3W1
 X LSWT 223 1.875% PC MOD SS ORB B1V3W1

DATA SET DATE MACH
 (AC1041) 28 JUL 70 0.250
 (AC1040) 28 JUL 70

REFERENCE INFORMATION
 REFS. 3.20800×10^{-01} SQ. FT.
 REFL. 2.31700×10^{-01} FT.
 REFB. $1.50000 \times 10^{+00}$ FT.
 XHRE. $1.38370 \times 10^{+01}$ IN.
 YHRE. $0.00000 \times 10^{+00}$ IN.
 ZNRP. $2.40000 \times 10^{+00}$ IN.
 SCALE 1.87500×10^{-02} SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1
X	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
B	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1
O	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
V	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1
X	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

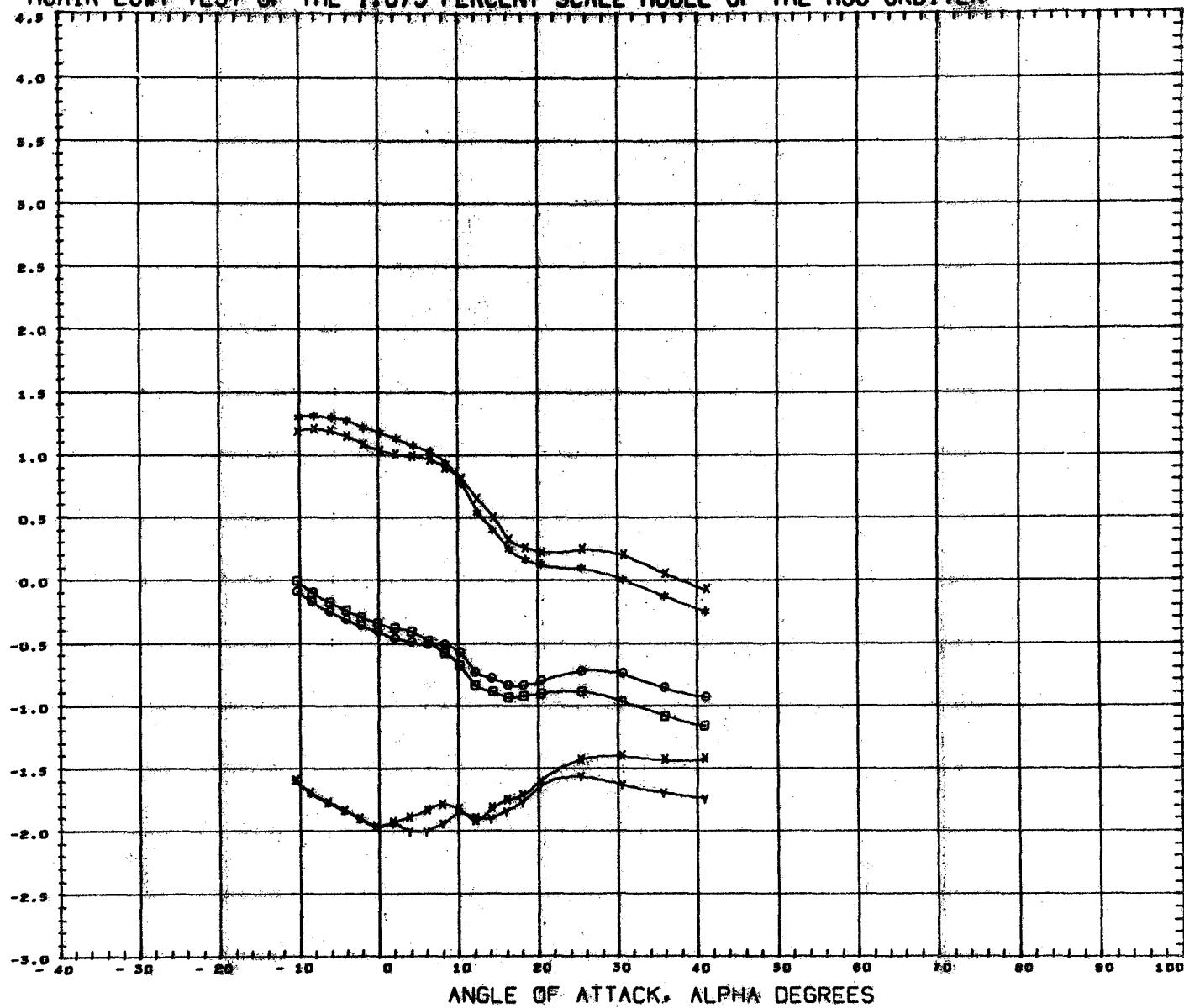
DATA SET	DATE	MACH
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(BC1H11)	28 JUL 70	
(BC1G05)	28 JUL 70	
(BC1H09)	28 JUL 70	
(BC1G04)	28 JUL 70	
(BC1H08)	28 JUL 70	

REFERENCE INFORMATION
REFS 3.20800X10 ⁻⁰¹ SQ.FT.
REFL 2.31700X10 ⁻⁰⁰ FT.
REFB 1.50000X10 ⁻⁰⁰ FT.
XHRP 1.38370X10 ⁻⁰⁰ IN.
YHRP 0.00000X10 ⁺⁰⁰ IN.
ZHRP 2.40000X10 ⁻⁰² IN.
SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CNM

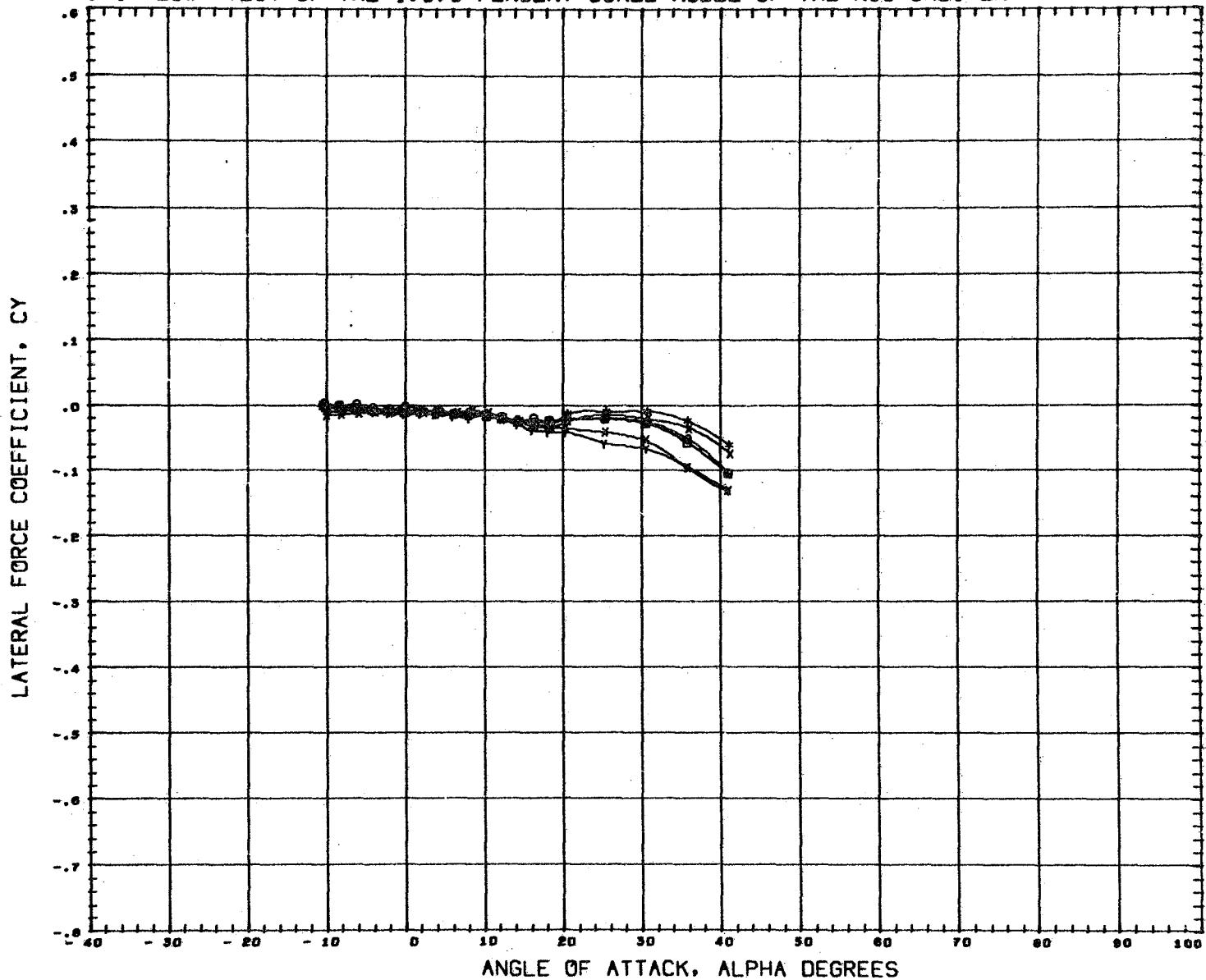


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSMT 223 1.875 PC MOD SS ORB. B1H013V3W1	(BC1608)	28 JUL 70	0.250	REFS. 3.20800X10 ⁻⁰¹ SQ.FT.
x	LSMT 223 1.875 PC MOD SS ORB. B1H1513V3W1	(BC1H11)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
o	LSMT 223 1.875 PC MOD SS ORB. B1H013V3W1	(BC1605)	28 JUL 70		REFB 1.90000X10 ⁺⁰⁰ FT.
o	LSMT 223 1.875 PC MOD SS GRB. B1H1513V3W1	(BC1H09)	28 JUL 70		XMRP 1.38370X10 ⁺⁰¹ IN.
v	LSMT 223 1.875 PC MOD SS ORB. B1H013V3W1	(BC1604)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
x	LSMT 223 1.875 PC MOD SS ORB. B1H1513V3W1	(BC1H08)	28 JUL 70		ZMRP 2.40000X10 ⁺⁰⁰ IN.

REFERENCE FILE SDY 37100150

SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

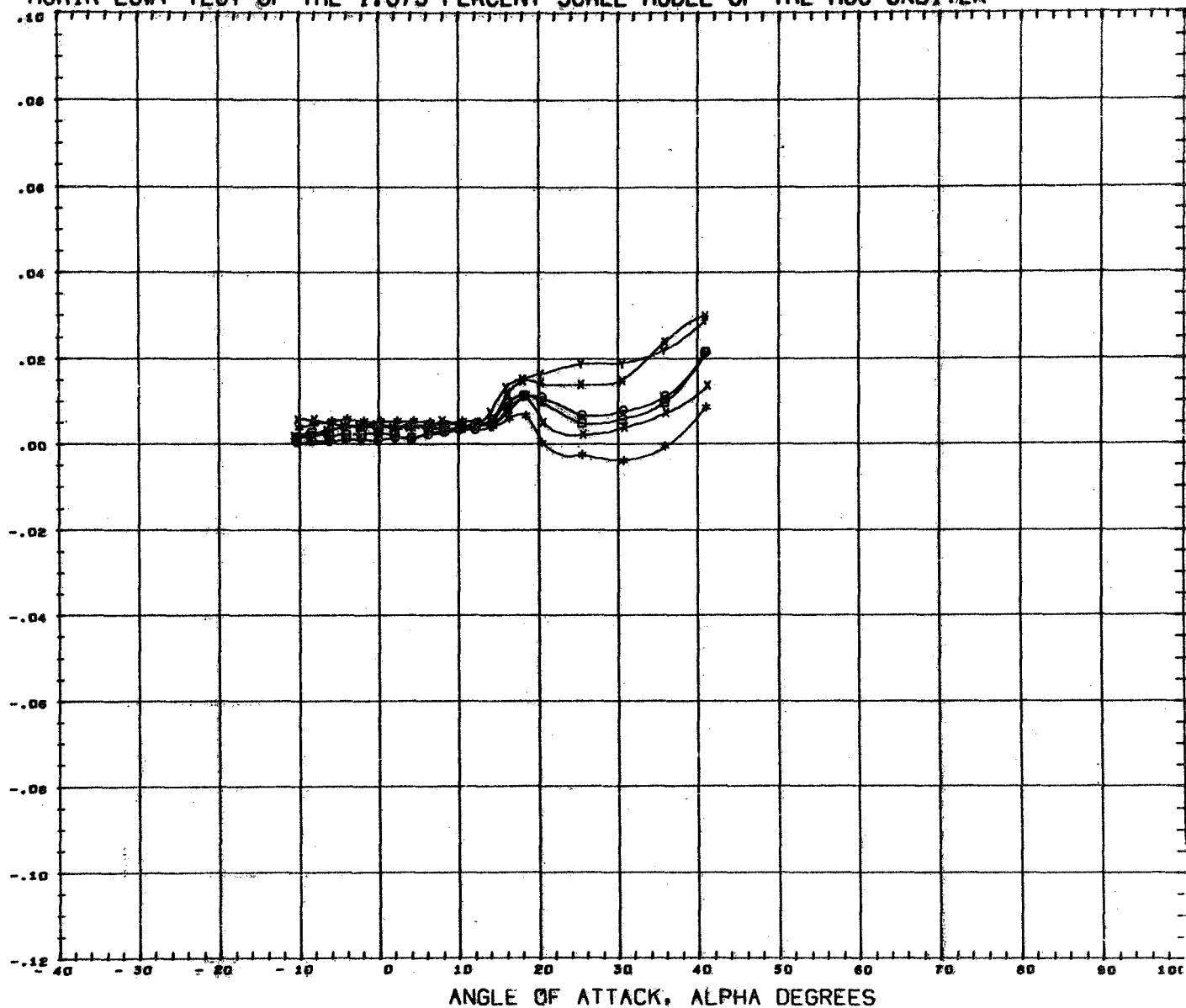


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G06)	28 JUL 70	0.250	REFS 3.20000X10 ⁻⁰¹ SQ. FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H11)	28 JUL 70		REFL 2.31700X10 ⁻⁰¹ FT.
B	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G03)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H09)	28 JUL 70		XNRP 1.36370X10 ⁺⁰¹ IN.
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G04)	28 JUL 70		YNRP 0.00000X10 ⁺⁰⁰ IN.
x	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H08)	28 JUL 70		ZMRP 2.40000X10 ⁻⁰² IN.

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, C_W



SYMBOL CONFIGURATION DESCRIPTION

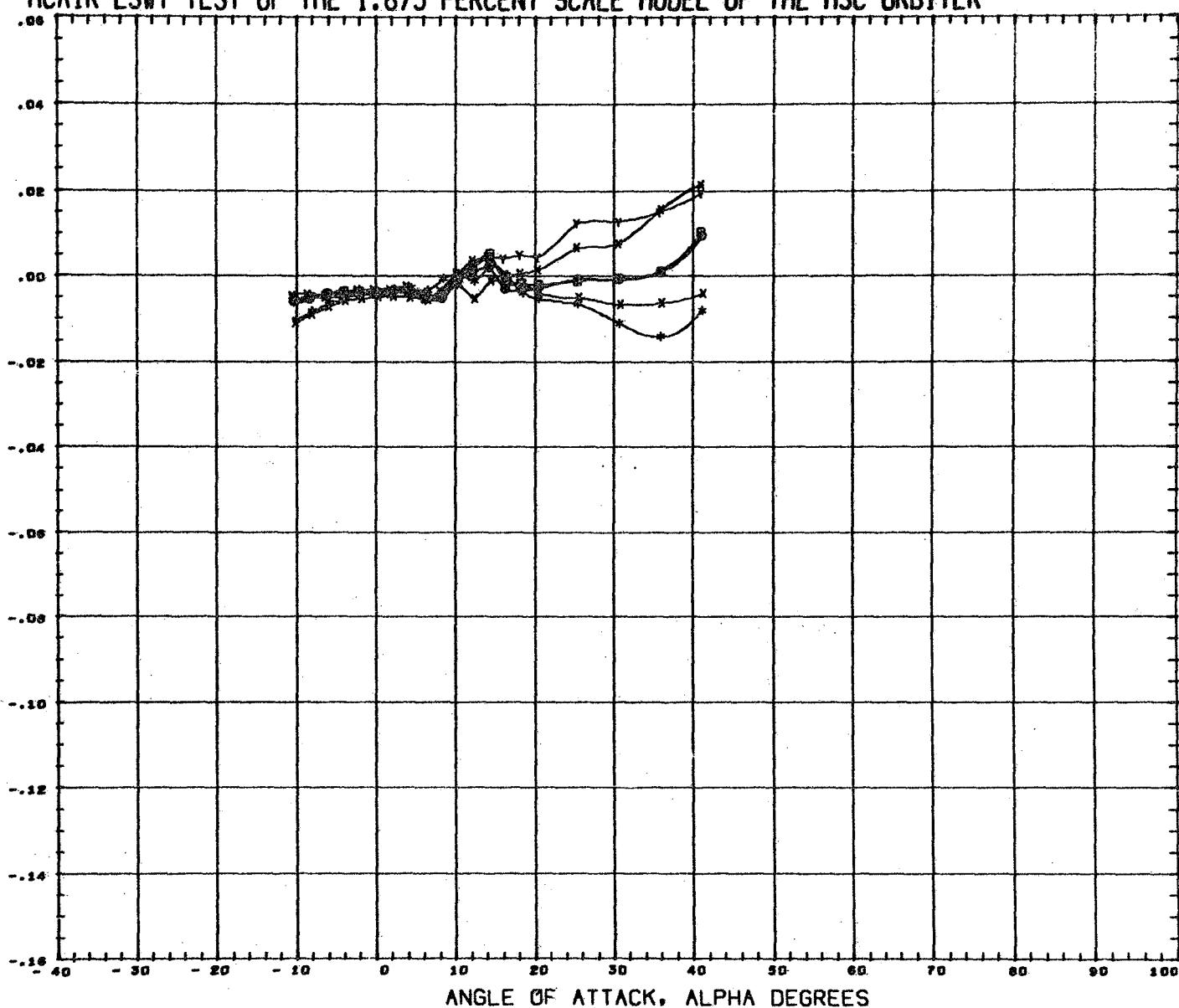
*	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1
X	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
G	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1
O	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1
Y	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1
Z	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

REFERENCE FILE SDY 37100150

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1606)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SE.FT.
(BC1H11)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(BC1605)	28 JUL 70		REFR 1.30000X10 ⁺⁰¹ FT.
(BC1H09)	28 JUL 70		XMRP 1.38370X10 ⁺⁰¹ IN.
(BC1604)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
(BC1H08)	28 JUL 70		ZMRP 2.40000X10 ⁺⁰² IN.
			SCALE 1.07500X10 ⁻⁰² SCALE

ROLLING MOMENT COEFFICIENT, CSL

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



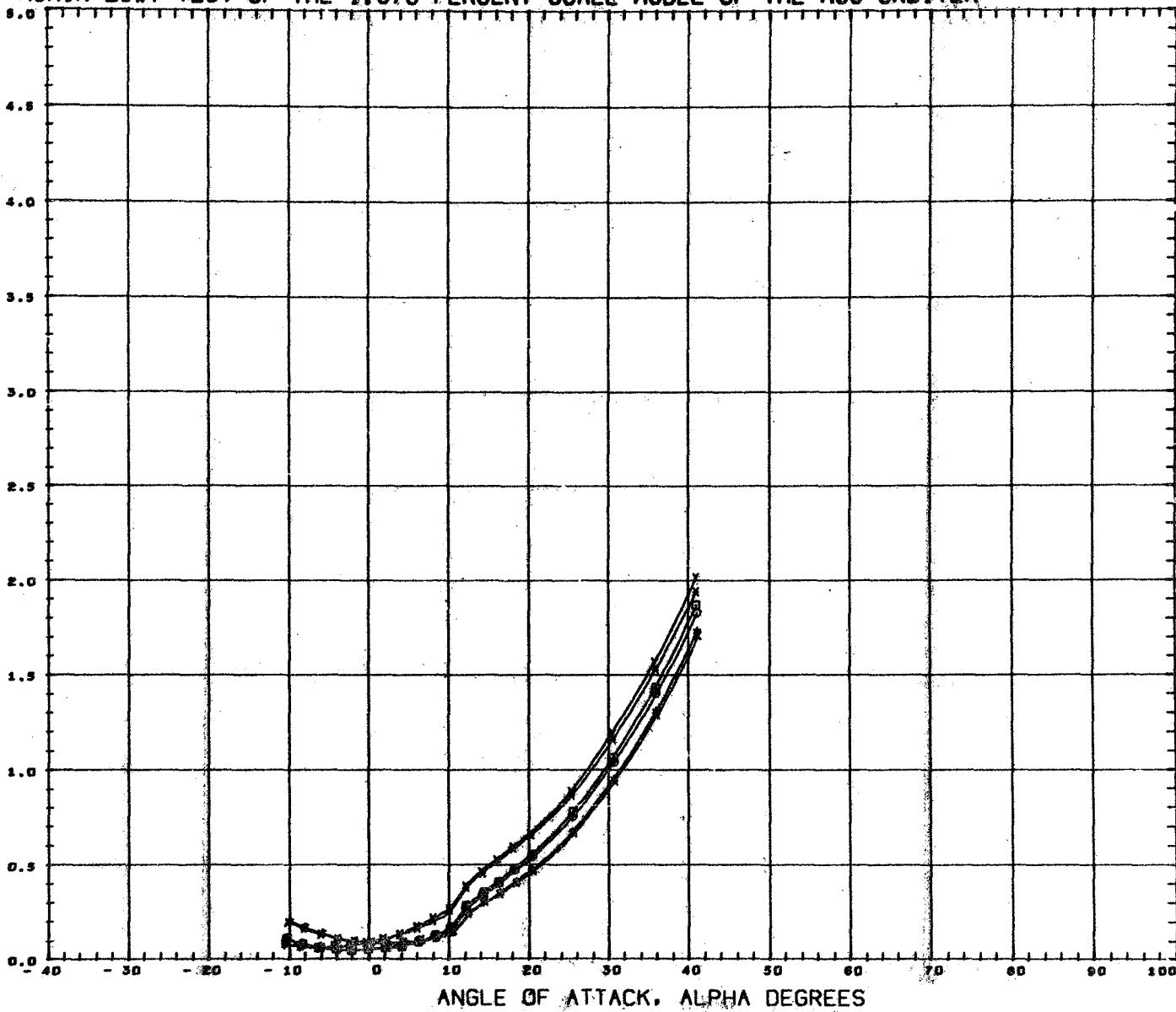
SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G06)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
x	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H11)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
o	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G05)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
Δ	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H09)	28 JUL 70		XMRP 1.38370X10 ⁺⁰⁰ IN.
y	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(BC1G04)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
s	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(BC1H08)	28 JUL 70		ZMRP 2.40000X10 ⁺⁰⁰ IN.

REFERENCE FILE SDY 37100150

SCALE 1.87500X10⁻⁰² SCALE

TOTAL DRAG COEFFICIENT, CD

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL CONFIGURATION DESCRIPTION

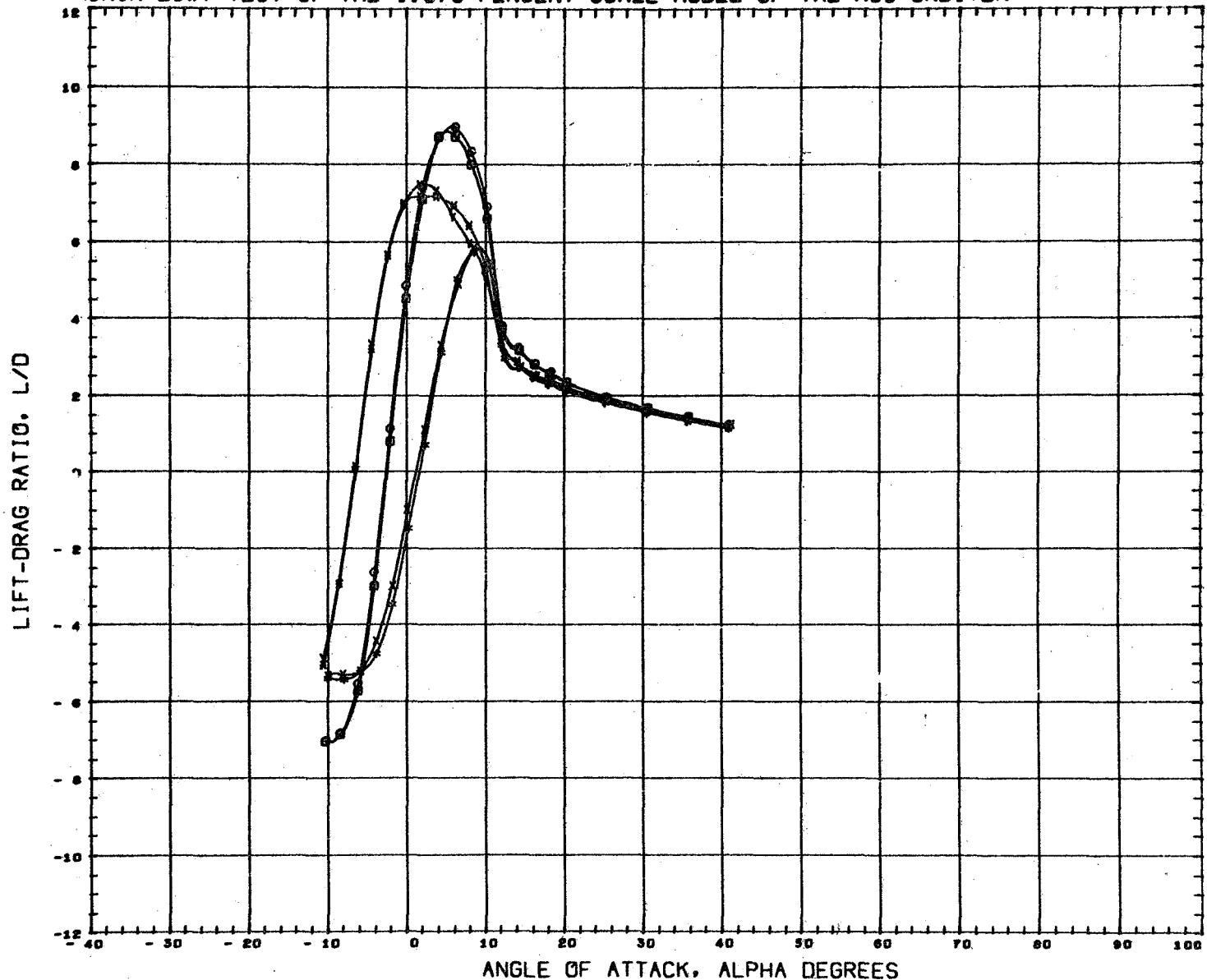
- * LSWT 223 1.875 PC MOD .55 ORB. B1H013V3W1
- X LSWT 223 1.875 FC MOD .55 ORB. B1H1513V3W1
- G LSWT 223 1.875 FC MOD .55 ORB. B1H013V3W1
- G LSWT 223 1.875 FC MOD .55 ORB. B1H1513V3W1
- Y LSWT 223 1.875 FC MOD .55 ORB. B1H013V3W1
- X LSWT 223 1.875 FC MOD .55 ORB. B1H1513V3W1

REFERENCE FILE

SDY 37100150

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1G06)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
(BC1H11)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(BC1G05)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
(BC1H09)	28 JUL 70		XHPP 1.38370X10 ⁺⁰⁰ IN.
(BC1G04)	28 JUL 70		YHPP 0.00000X10 ⁺⁰⁰ IN.
(BC1H08)	28 JUL 70		ZHPP 2.40000X10 ⁻⁰² IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

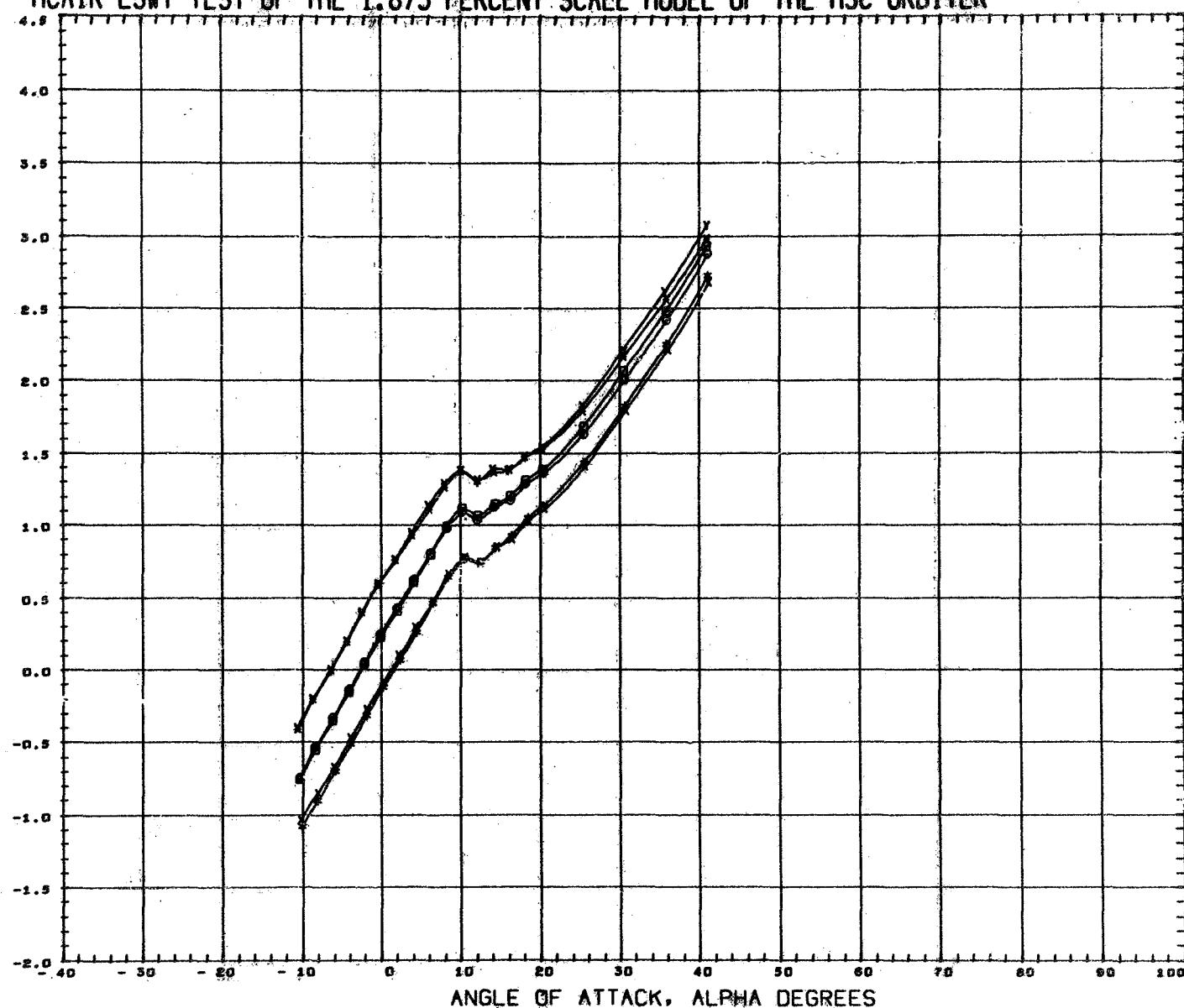


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD SS ORB. B1H013V3W1	(BC1G06)	28 JUL 70	0.250	REFS. 3.20800×10^{-01} Sq. FT.
x	LSWT 223 1.875 PC MOD SS ORB. B1H1513V3W1	(BC1H11)	28 JUL 70		REFL. $2.51700 \times 10^{+00}$ FT.
█	LSWT 223 1.875 PC MOD SS ORB. B1H013V3W1	(BC1G05)	28 JUL 70		REFB. $1.50000 \times 10^{+00}$ FT.
○	LSWT 223 1.875 PC MOD SS ORB. B1H1513V3W1	(BC1H09)	28 JUL 70		XMRP. $1.36370 \times 10^{+01}$ IN.
◆	LSWT 223 1.875 PC MOD SS ORB. B1H013V3W1	(BC1G04)	28 JUL 70		YMRP. $0.00000 \times 10^{+00}$ IN.
x	LSWT 223 1.875 PC MOD SS ORB. B1H1513V3W1	(BC1H08)	28 JUL 70		ZMRP. $2.40000 \times 10^{+00}$ IN.
					SCALE. 1.87500×10^{-02} SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

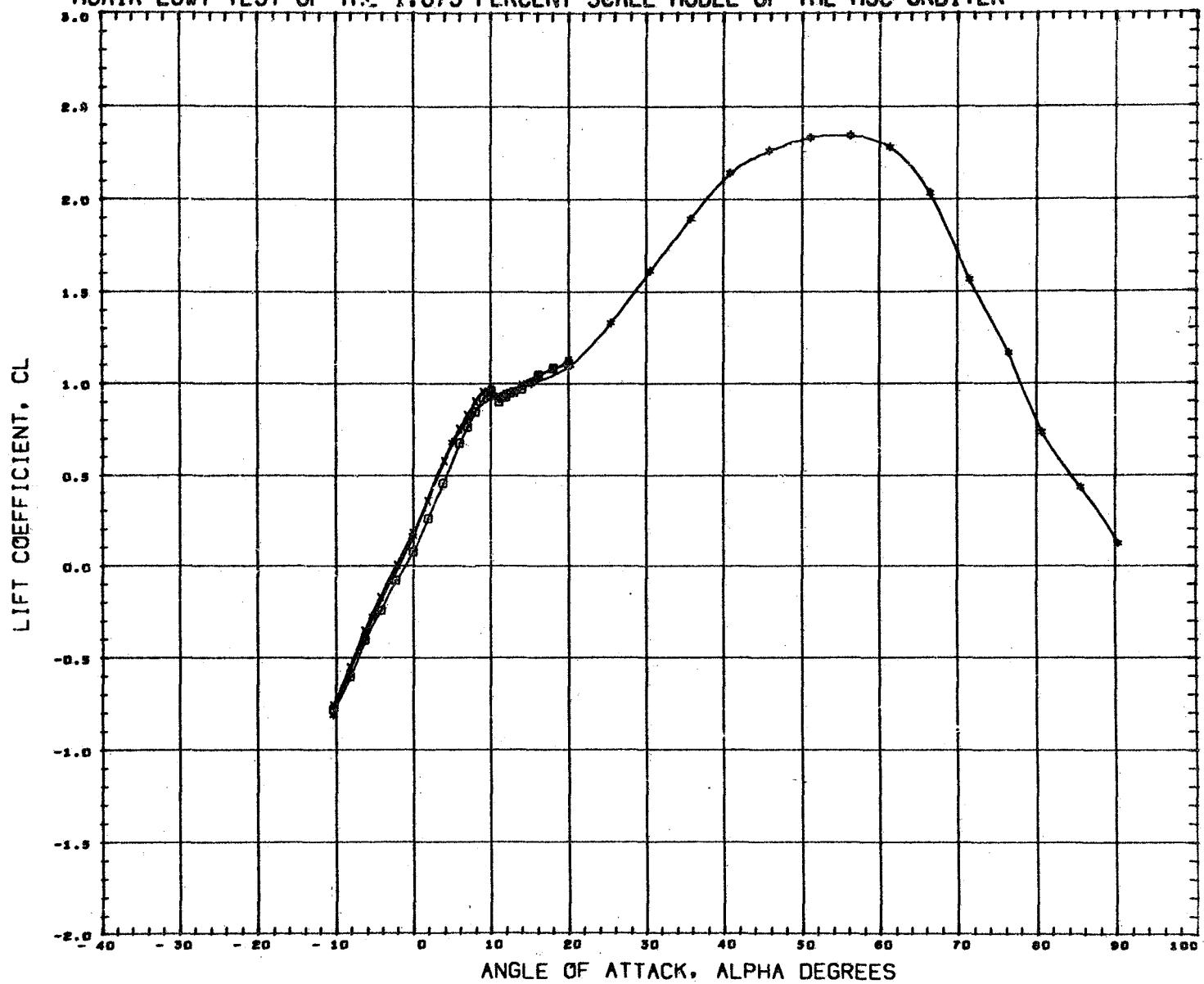
NORMAL FORCE COEFFICIENT, CN



SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(AC1G06)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(AC1H11)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1	(AC1G05)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
G	LSWT 223 1.875 RC MOD S5 ORB. B1H1513V3W1	(AC1H09)	28 JUL 70		XMRP 1.38370X10 ⁺⁰¹ IN.
Y	LSWT 223 1.875 RC MOD S5 ORB. B1H013V3W1	(AC1G04)	28 JUL 70		YMRP 0.00000X10 ⁺⁰⁰ IN.
x	LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1	(AC1H08)	28 JUL 70		ZMRP 2.40000X10 ⁻⁰² IN.

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

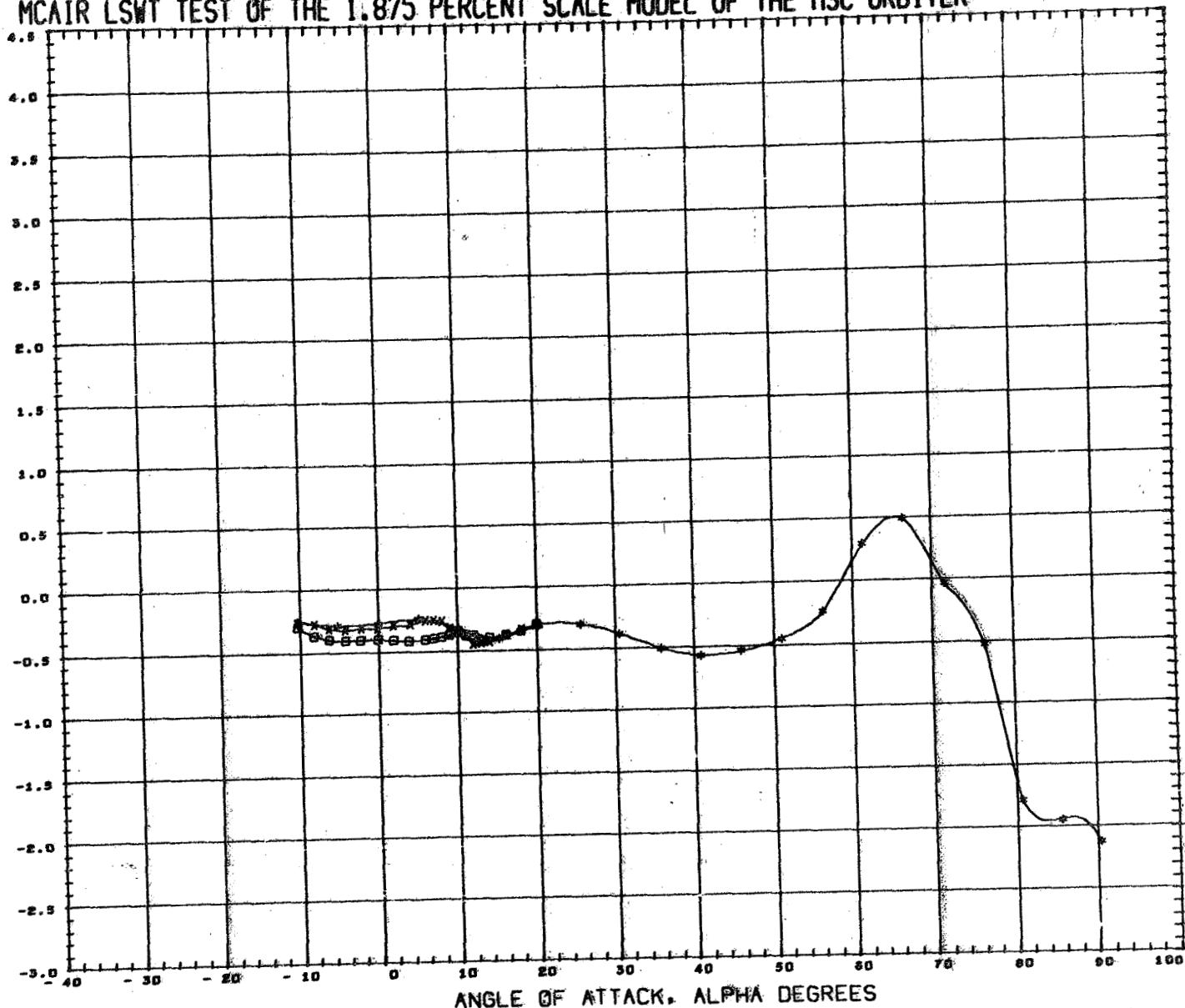


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 FC MOD S5 ORB. BIH6V3W1 (FWD)	(BC1F17)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰¹ SG.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. BIH6S2V3W1	(BC1D83)	28 JUL 70	0.170	REFL 2.31700X10 ⁺⁰⁰ FT.
O	LSWT 223 1.875 PC MOD S5 ORB. BIH6S3V3W1	(BC1D84)	28 JUL 70	0.170	REFB 1.50000X10 ⁺⁰⁰ FT.

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CNM



SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875% PC MOD SS ORB. B1H6V3W1 (FWD)
 X LSWT 223 1.075% PC MOD SS ORB. B1H6S2V3W1
 G LSWT 223 1.875% PC MOD SS ORB. B1H6S3V5W1

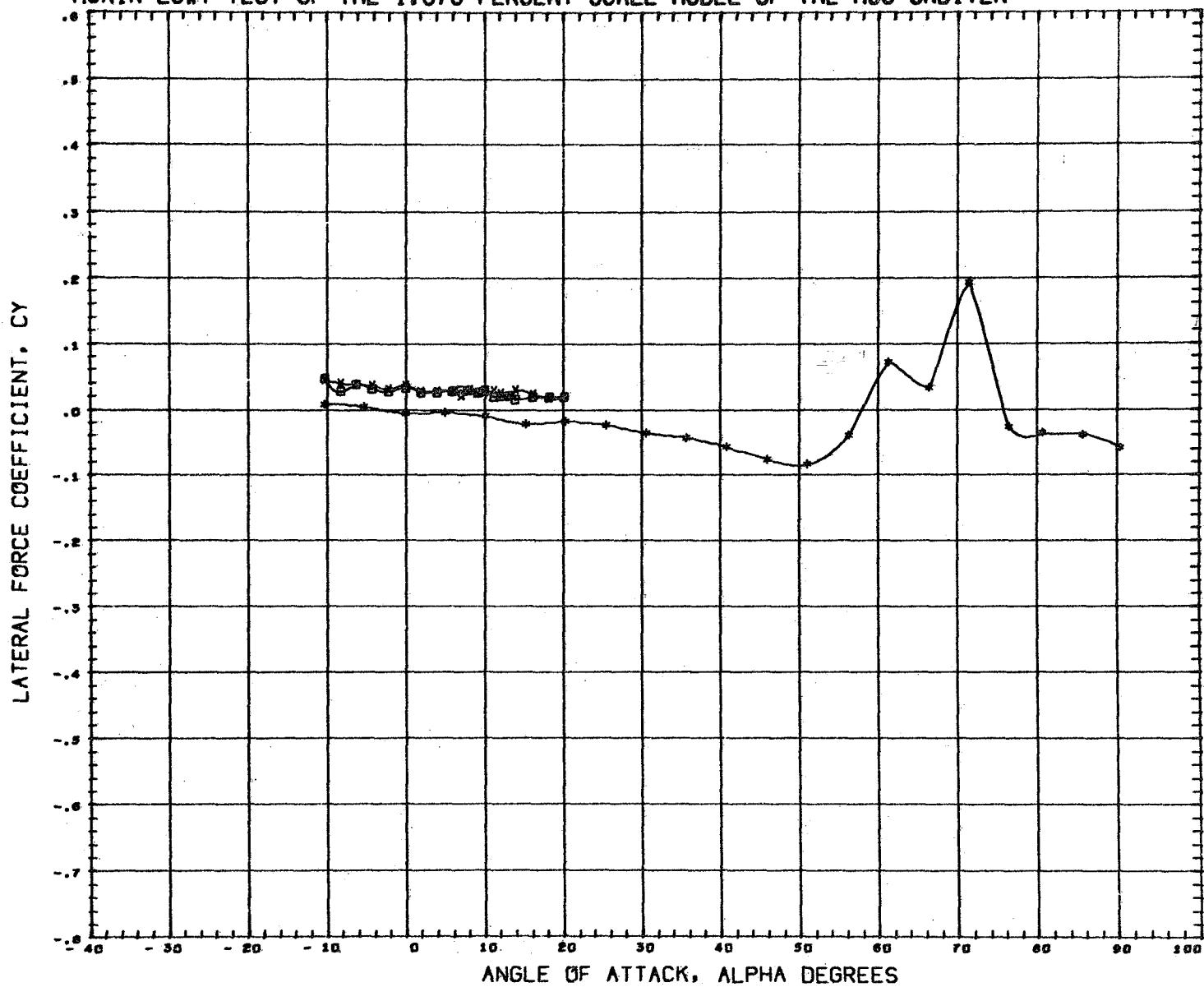
DATA SET DATE MACH
 (BC1F17) 28 JUL 70 0.170
 (BC1083) 28 JUL 70
 (BC1084) 28 JUL 70

REFERENCE INFORMATION
 REFS: 3.20600X10⁻⁰¹ Sq.FT.
 REFL: 2.31700X10⁻⁰¹ FT.
 REFB: 1.50000X10⁻⁰⁰ FT.
 XMRF: 1.38370X10⁻⁰¹ IN.
 YMRF: 0.00000X10⁻⁰⁰ IN.
 ZMRF: 2.40000X10⁻⁰² IN.
 SCALE: 2.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

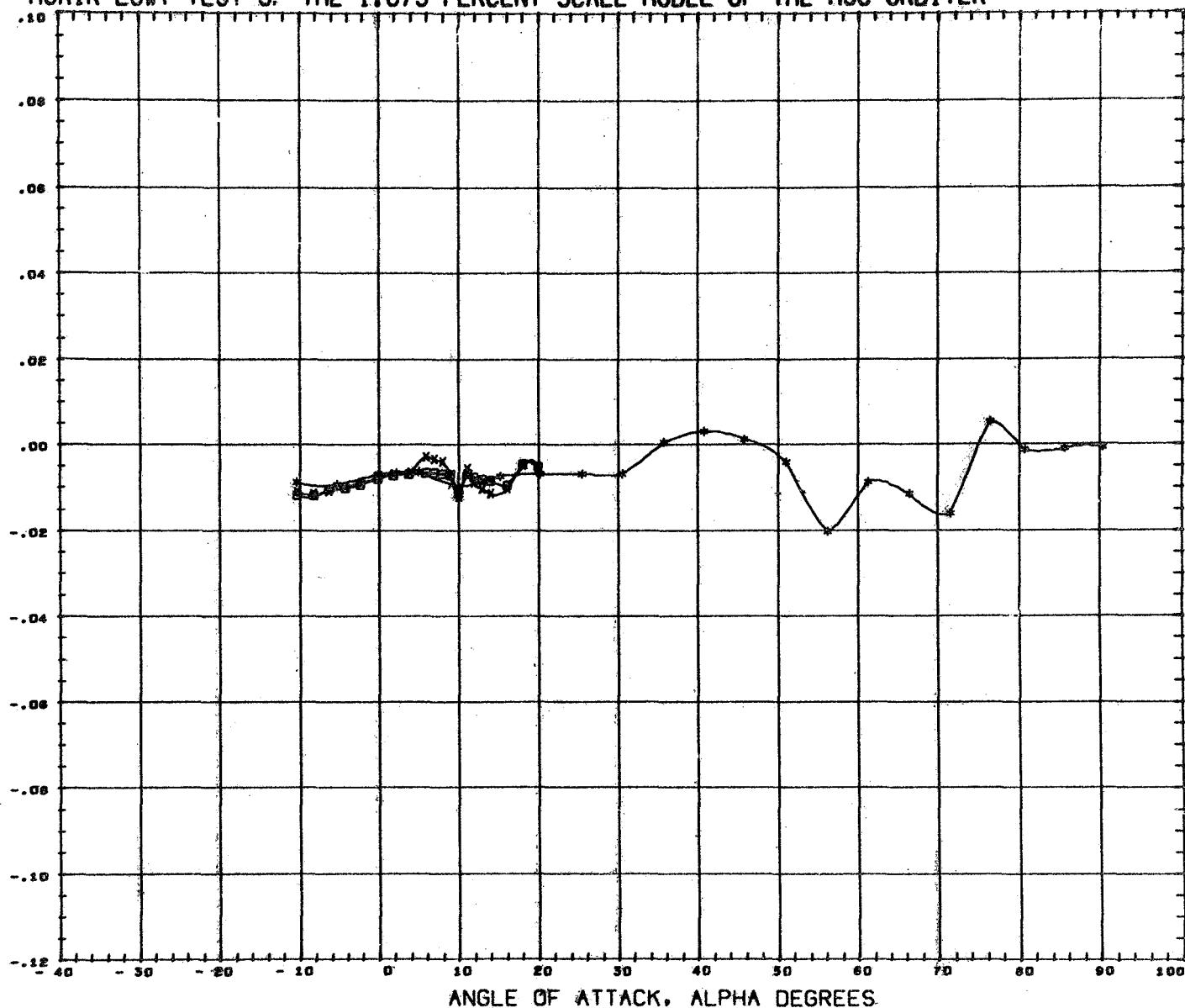


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD SS ORB. B1H6V3W1 (FWD)	(BC1F17)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD SS ORB. B1H6S2V3W1	(BC1D83)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD SS ORB. B1H6S3V3W1	(BC1D84)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
					XMRP 1.38370X10 ⁺⁰¹ IN.
					YHRP 0.00000X10 ⁺⁰⁰ IN.
					ZMRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, C_{WY}



ANGLE OF ATTACK, ALPHA DEGREES

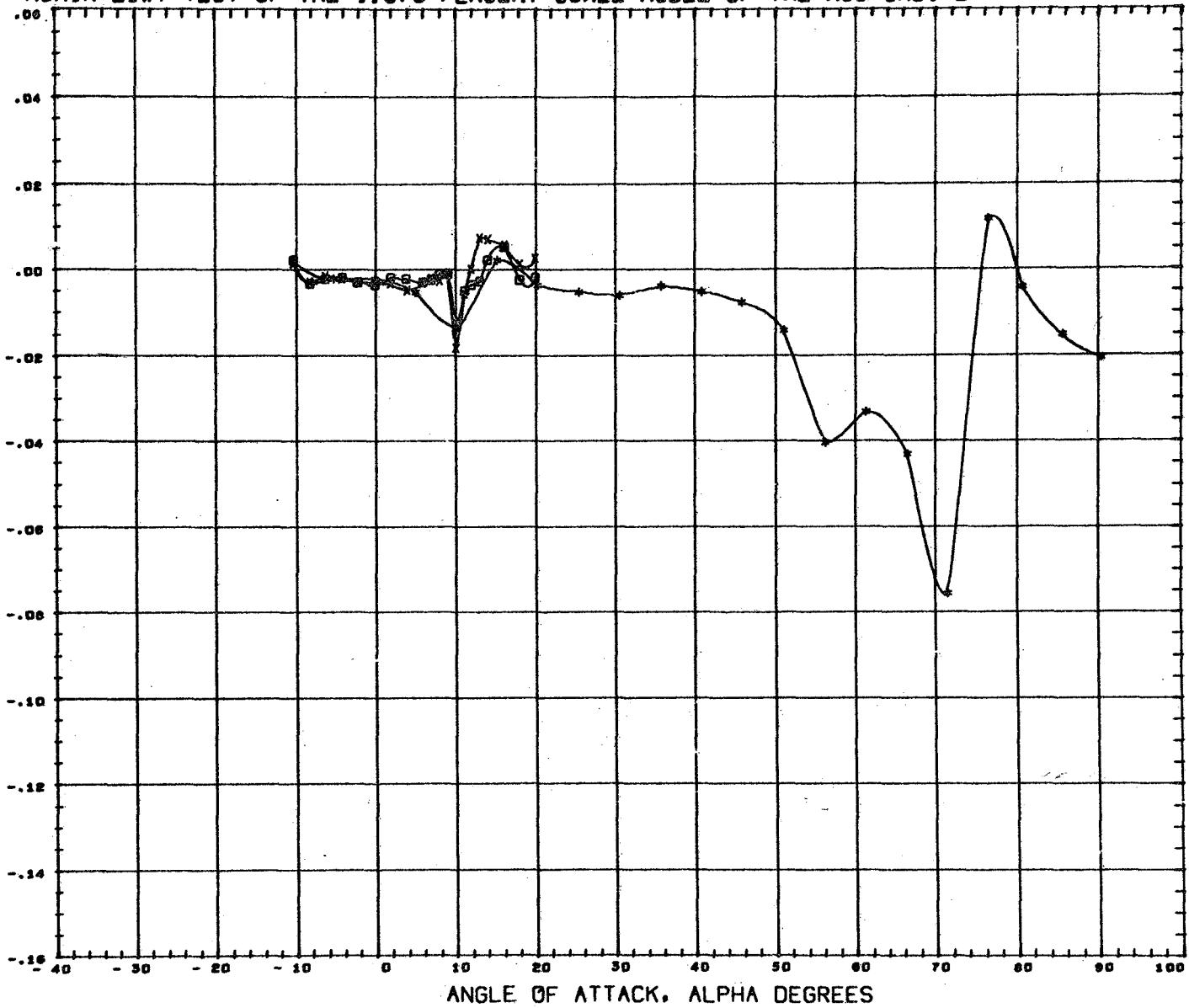
SYMBOL	CONFIGURATION DESCRIPTION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
X	LSWT 223 1.875 PC MOD S5 DRB. B1H6S2V3W1
O	LSWT 223 1.875 PC MOD S5 ORB. B1H6S3V3W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1F17)	28 JUL 70	0.170	REFS. 3.20000X10 ⁻⁰¹ SQ.FT.
(BC1083)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(BC1084)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
			XHRP 1.38370X10 ⁺⁰⁰ IN.
			YHRP 0.00000X10 ⁺⁰⁰ IN.
			ZHRP 2.40000X10 ⁻⁰² IN.
			SCALE 1.87500X10 ⁻⁰¹ SCALE

REFERENCE FILE SDY 37100150

ROLLING MOMENT COEFFICIENT, CSL

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

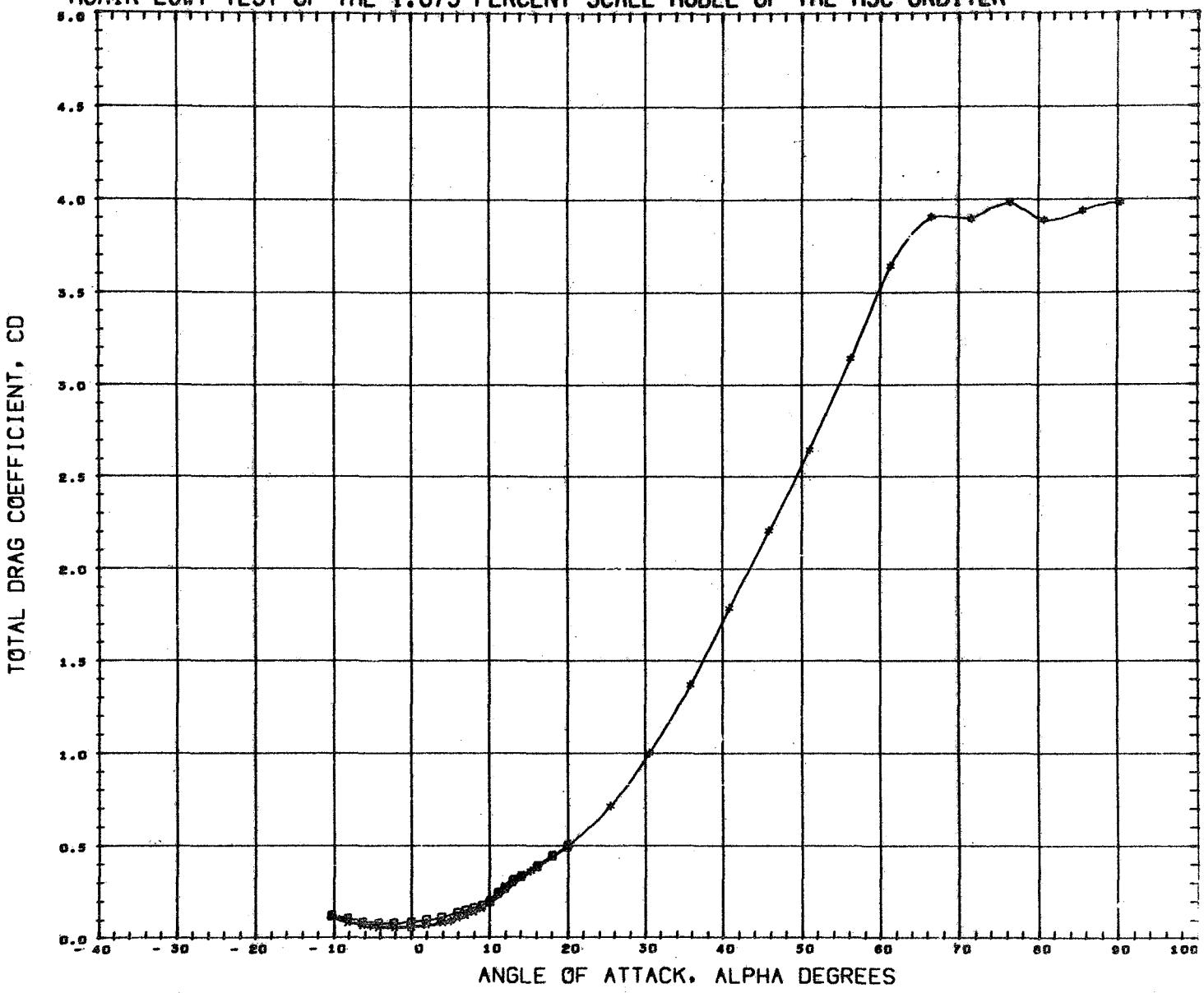


SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD SS ORB. B1H6V3W1 (FWD)
 X LSWT 223 1.875 PC MOD SS ORB. B1H6S2V3W1
 G LSWT 223 1.875 PC MOD SS ORB. B1H6S3V3W1

DATA SET DATE MACH REFERENCE INFORMATION
 (BC1F17) 28 JUL 70 0.170 REFS 3.20800X10⁻⁰¹ SQ.FT.
 (BC1085) 28 JUL 70 0.170 REFL 2.31700X10⁻⁰¹ FT.
 (BC1084) 28 JUL 70 0.170 REFB 1.50000X10⁺⁰⁰ FT.
 XHRP 1.38370X10⁺⁰¹ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZMRF 2.40000X10⁺⁰⁰ IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

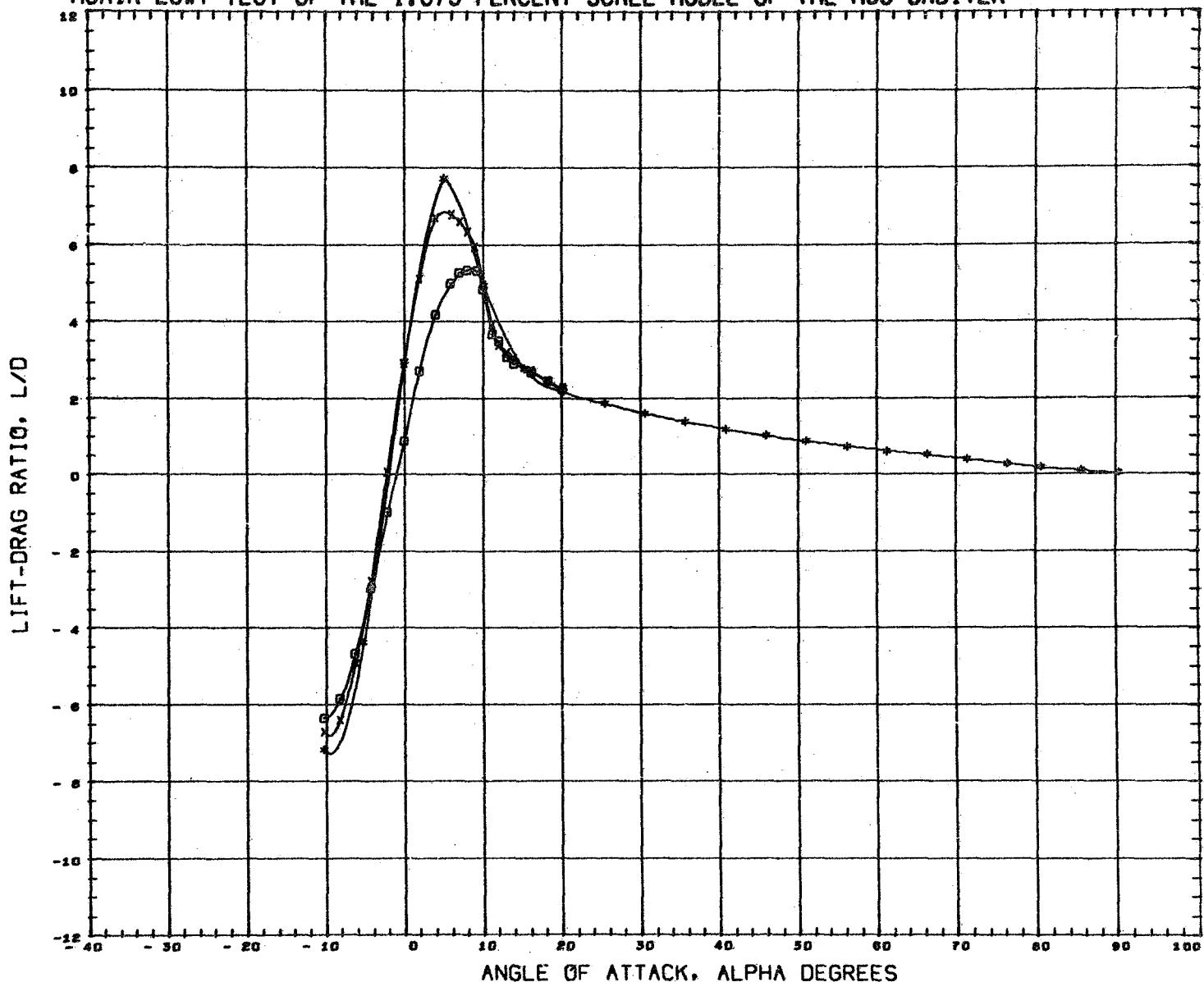


SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 X LSWT 223 1.875 PC MOD S5 ORB. B1H6S2V5W1
 @ LSWT 223 1.875 PC MOD S5 ORB. B1H6S3V3W1

DATA SET DATE MACH REFERENCE INFORMATION
 (BC1F17) 28 JUL 70 0.170 REFS 3.20800X10⁻⁰¹ SE.FT.
 (BC1083) 28 JUL 70 0.170 REFL 2.31700X10⁻⁰¹ FT.
 (BC1084) 28 JUL 70 0.170 REFB 1.50000X10⁺⁰⁰ FT.
 XMRP 1.38370X10⁺⁰¹ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



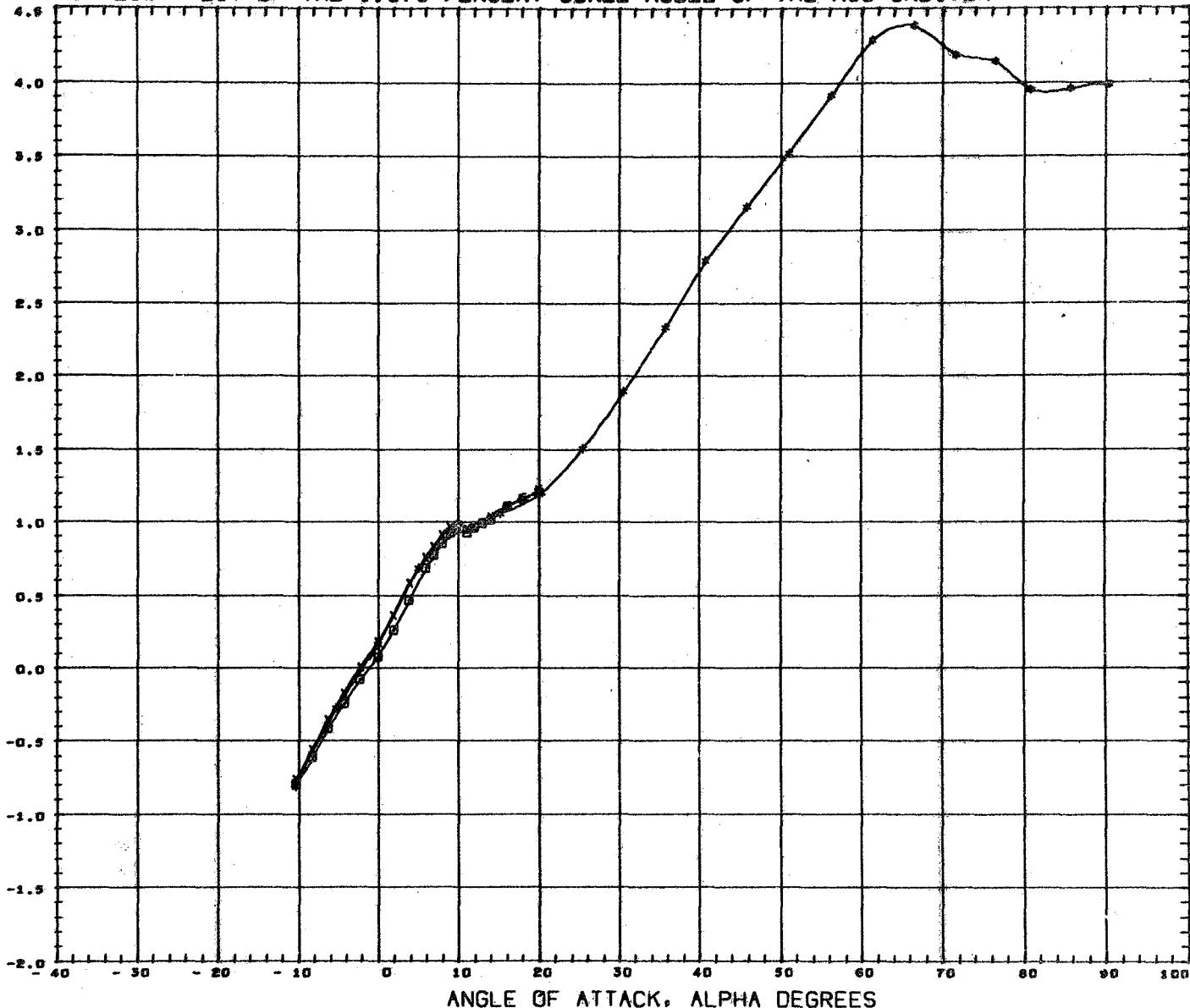
SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSHT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(BC1F17)	28 JUL 70	0.170	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
x	LSWT 223 1.875 PC MOD S5 ORB. B1H6S2V3W1	(BC1083)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6S3V3W1	(BC1084)	28 JUL 70		REFB 1.50000X10 ⁺⁰⁰ FT.
					XMRP 1.38370X10 ⁺⁰¹ IN.
					YMRP 0.00000X10 ⁺⁰⁰ IN.
					ZMRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

NORMAL FORCE COEFFICIENT, CN

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD SS ORB. B1H6V3W1 (FWD)
 X LSWT 223 1.875 PC MOD SS ORB. B1H6S2V3W1
 G LSWT 223 1.875 PC MOD SS ORB. B1H6S3V3W1

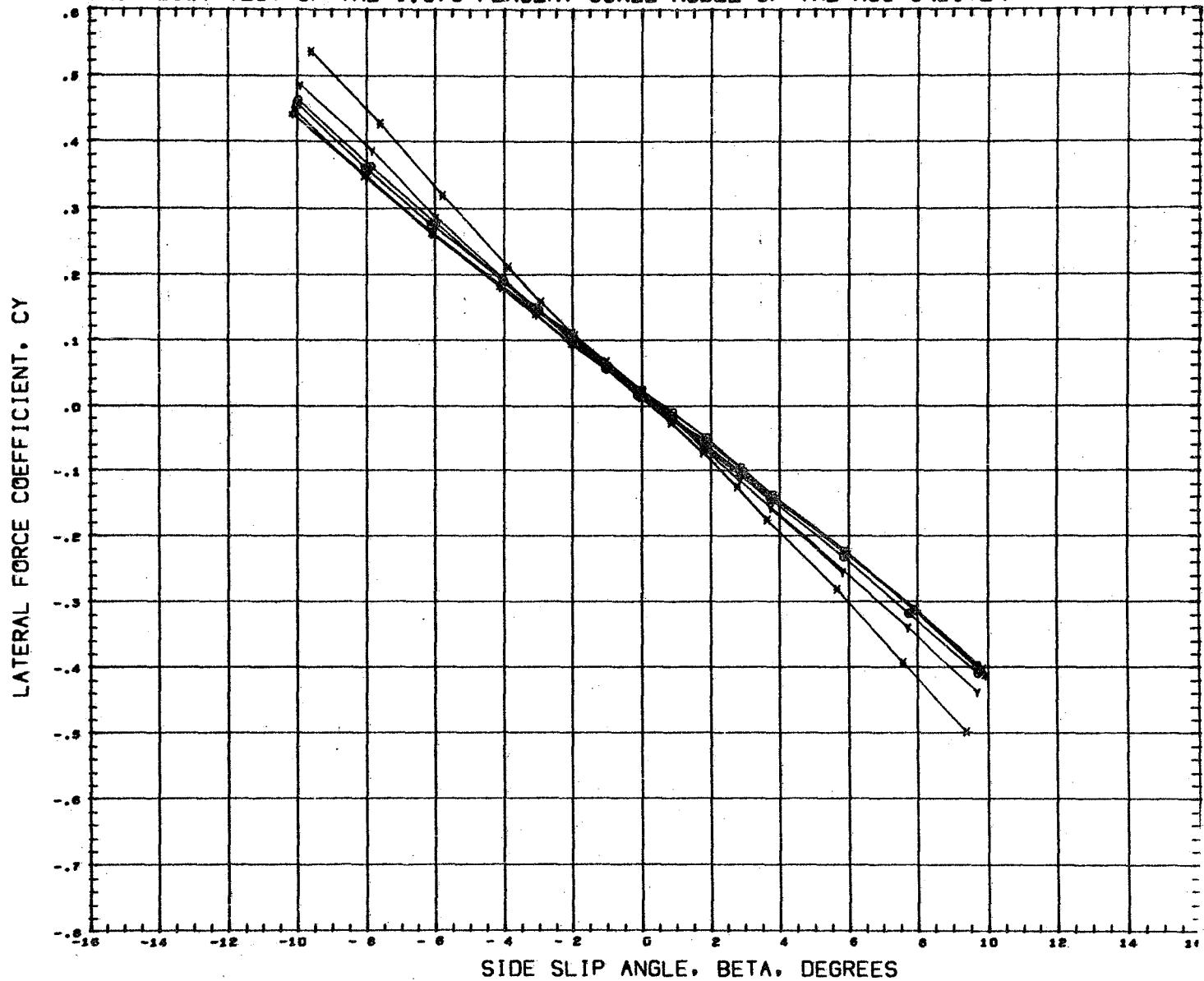
DATA SET DATE MACH
 (AC1F17) 26 JUL 70 0.170
 (AC1D83) 26 JUL 70
 (AC1D84) 26 JUL 70

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁺⁰⁰ FT.
 REFB 1.50000X10⁺⁰¹ FT.
 XMRF 1.38370X10⁺⁰¹ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZHRF 2.40000X10⁺⁰⁰ IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE

SDY 57100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



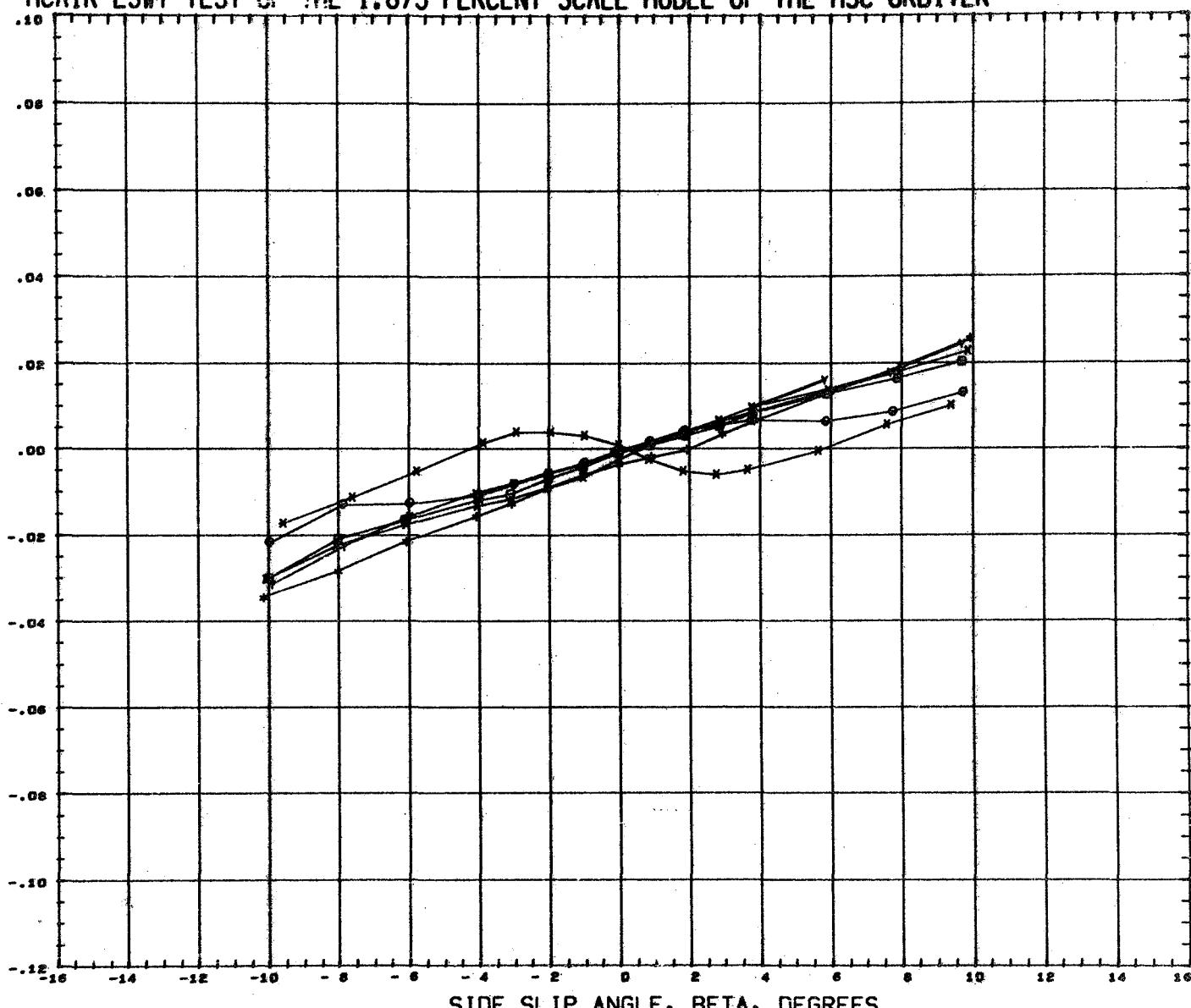
SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(RC1F11)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(RC1F12)	28 JUL 70	0.250	REFL 2.31700X10 ⁻⁰¹ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(RC1F13)	28 JUL 70	0.250	REFB 1.50000X10 ⁺⁰⁰ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(RC1F16)	28 JUL 70	0.250	XMRP 1.38370X10 ⁺⁰⁰ IN.
+	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(RC1F14)	28 JUL 70	0.250	YMRP 0.00000X10 ⁺⁰⁰ IN.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(RC1F15)	28 JUL 70	0.250	ZMRP 2.40000X10 ⁺⁰⁰ IN.

REFERENCE FILE SDY 37100150

SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, CWN



SYMBOL CONFIGURATION DESCRIPTION

* LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 x LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 o LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 v LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)
 + LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)

DATA SET DATE MACH

(RC1F11) 28 JUL 70 0.250
 (RC1F12) 28 JUL 70
 (RC1F13) 28 JUL 70
 (RC1F14) 28 JUL 70
 (RC1F15) 28 JUL 70

REFERENCE INFORMATION

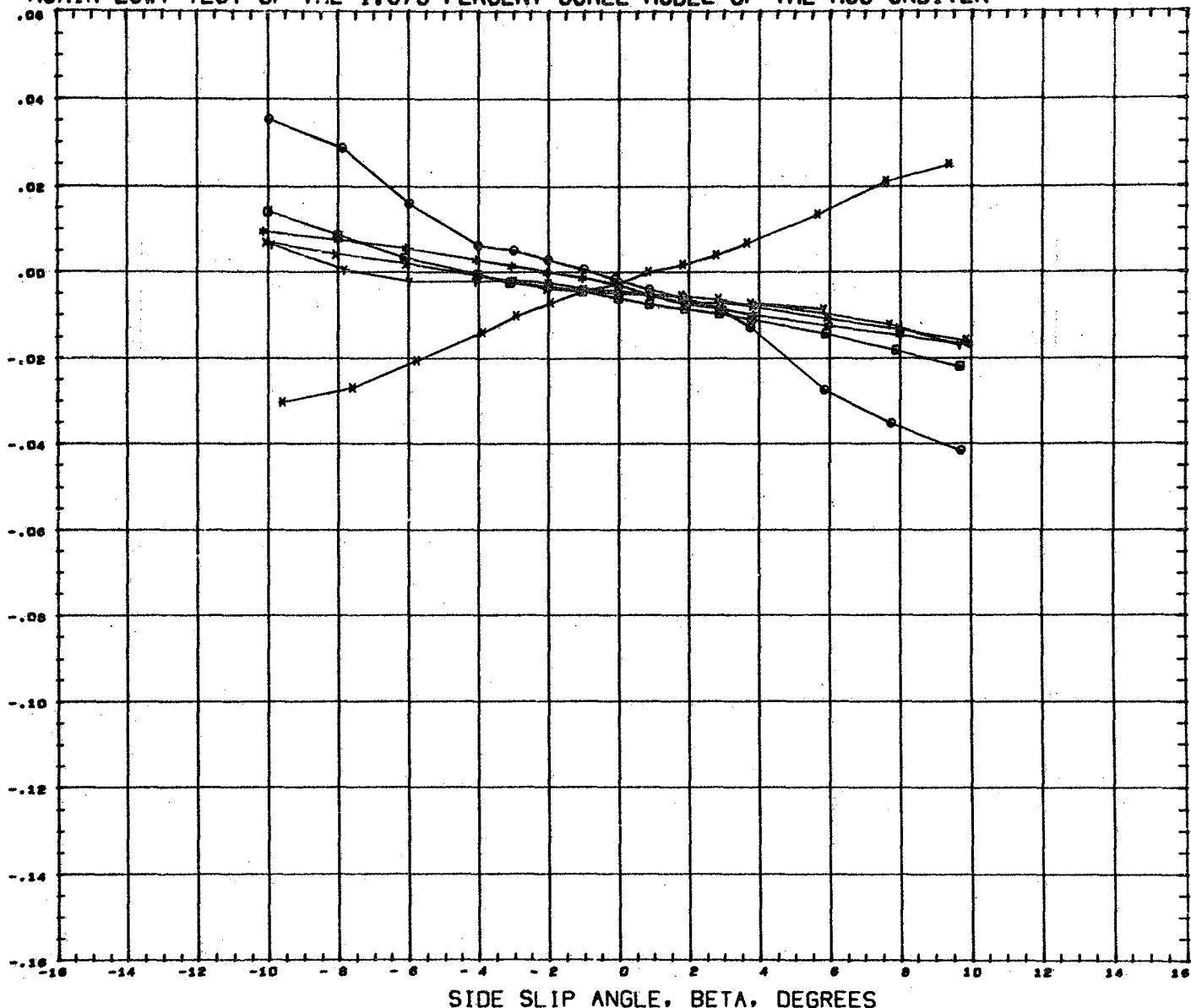
REFS 3.20600X10⁻⁰¹ 58.FT.
 REFL 2.31700X10⁺⁰⁰ FT.
 REFB 1.50000X10⁺⁰¹ FT.
 XMRF 1.38370X10⁺⁰⁰ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZMRF 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE

SDY 37100150

ROLLING MOMENT COEFFICIENT. CSL

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

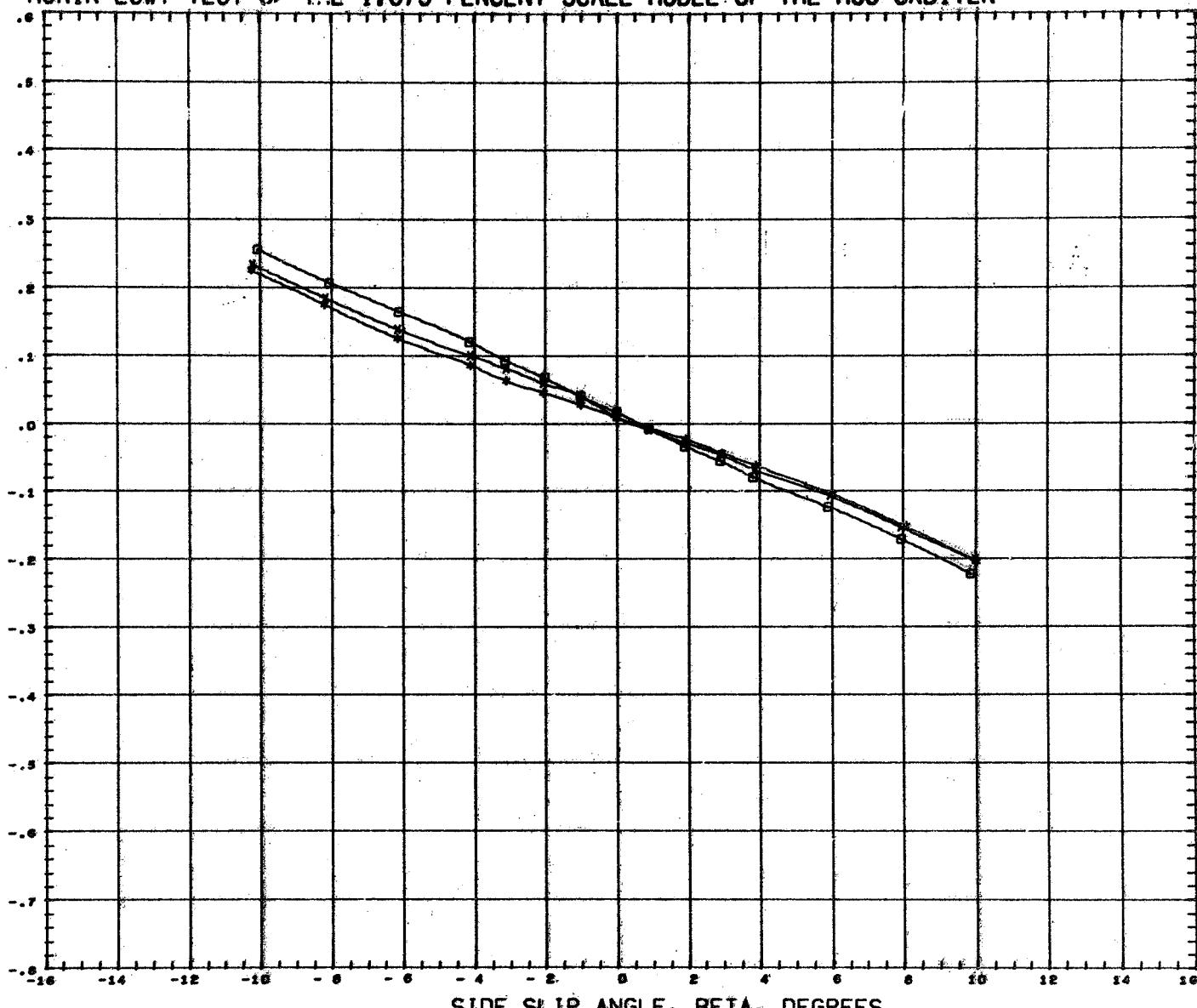


SYMBOL	CONFIGURATION DESCRIPTION	DATA SET	DATE	MACH	REFERENCE INFORMATION
*	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(RC1F11)	28 JUL 70	0.250	REFS. 3.20800X10 ⁻⁰¹ SQ.FT.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(RC1F12)	28 JUL 70	0.250	REFL 2.31700X10 ⁻⁰¹ FT.
G	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(RC1F13)	28 JUL 70	0.250	REFD 1.50000X10 ⁺⁰⁰ FT.
O	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(RC1F16)	28 JUL 70	0.250	XMRP 1.58370X10 ⁺⁰¹ IN.
V	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(RC1F14)	28 JUL 70	0.250	YMRP 0.00000X10 ⁺⁰⁰ IN.
X	LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)	(RC1F15)	28 JUL 70	0.250	ZMRP 2.40000X10 ⁻⁰² IN.
					SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

LATERAL FORCE COEFFICIENT, CY



SIDE SLIP ANGLE, BETA, DEGREES

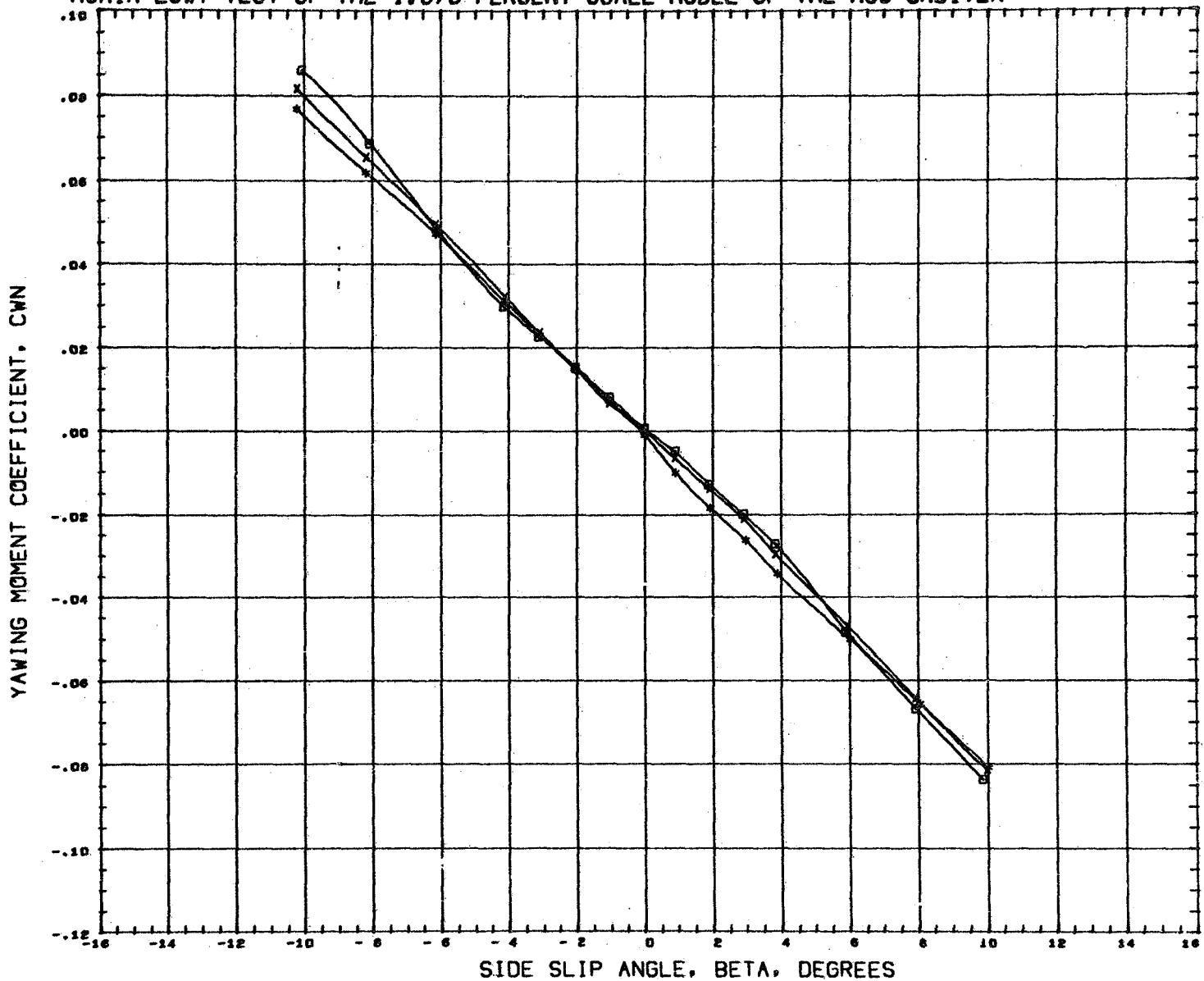
SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD SS ORB. B1H6W1
 X LSWT 223 1.875 PC MOD SS ORB. B1H6W1
 O LSWT 223 1.875 PC MOD SS ORB. B1H6W1

DATA SET DATE MACH
 (RC1057) 26 JUL 70 0.250
 (RC1056) 28 JUL 70
 (RC1055) 28 JUL 70
 REF S 3.20E00X10⁻⁰¹ SG.FT.
 REFE 2.31700X10⁺⁰⁰ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XNRP 1.38370X10⁺⁰¹ IN.
 YNRP 0.00000X10⁺⁰⁰ IN.
 ZNRP 2.40000X10⁺⁰⁰ IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



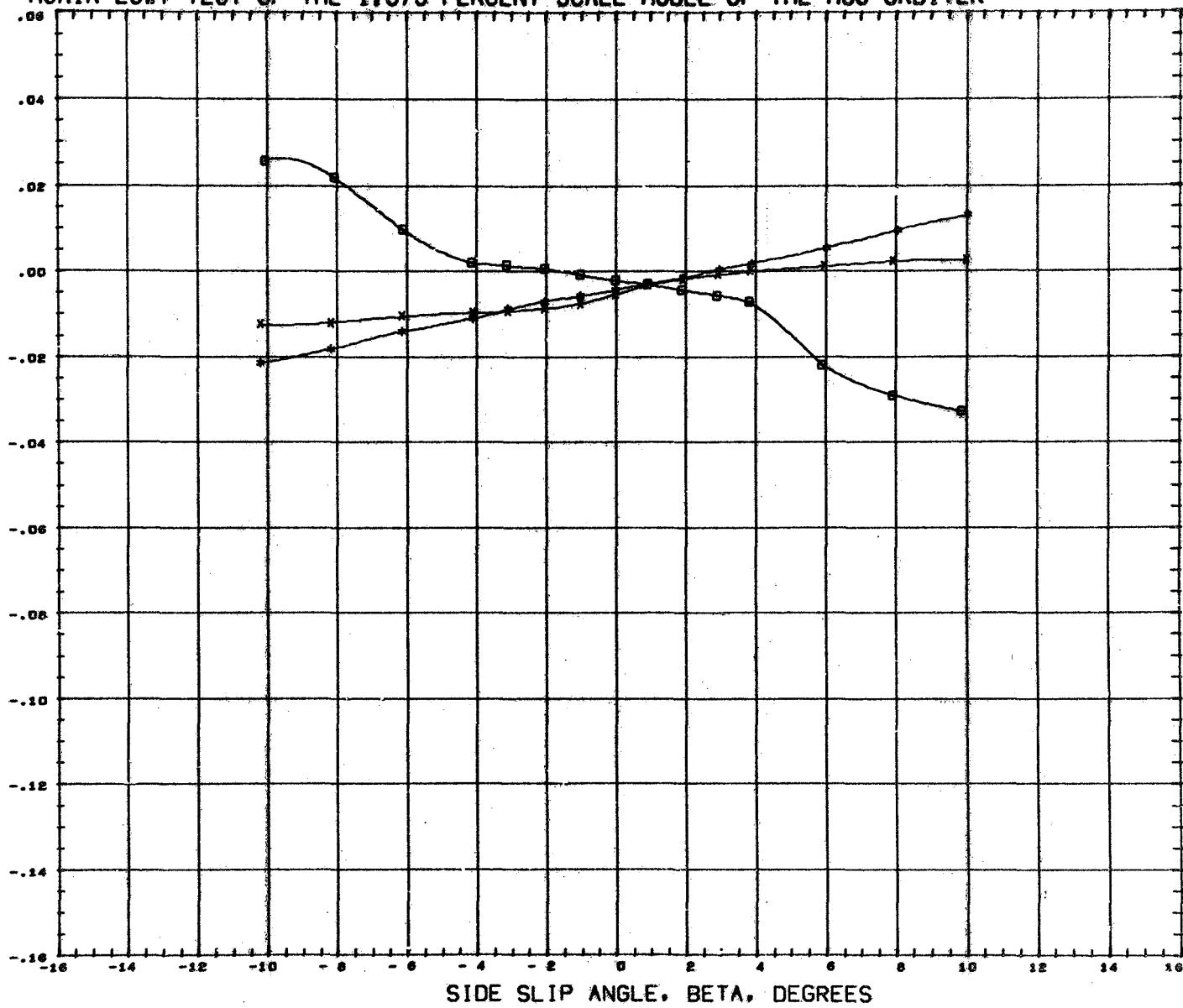
SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
 X LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
 G LSWT 223 1.875 PC MOD S5 ORB. B1H6W1

DATA SET DATE MACH REFERENCE INFORMATION
 (RC1057) 28 JUL 70 0.250 REFS 3.20800×10^{-01} SQ.FT.
 (RC1058) 28 JUL 70 0.250 REFL 2.31700×10^{-01} FT.
 (RC1055) 28 JUL 70 0.250 REFB $1.50000 \times 10^{+01}$ FT.
 XNRP $1.38370 \times 10^{+01}$ IN.
 YMNP $0.00000 \times 10^{+00}$ IN.
 ZNRP $2.40000 \times 10^{+00}$ IN.
 SCALE 1.87500×10^{-02} SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

ROLLING MOMENT COEFFICIENT, CSL



SIDE SLIP ANGLE, BETA, DEGREES

SYMBOL CONFIGURATION DESCRIPTION

* LSWT 223 1.875 PC MOD SS ORB. B1H6W1

X LSWT 223 1.875 PC MOD SS ORB. B1H6W1

G LSWT 223 1.875 PC MOD SS ORB. B1H6W1

DATA SET DATE MACH

(RC1057) 26 JUL 70 0.250

(RC1058) 26 JUL 70

(RC1055) 26 JUL 70

REFERENCE INFORMATION

REFS 3.20800×10^{-01} SQ.FT.

REFL 2.31700×10^{-01} FT.

REFB $1.50000 \times 10^{+01}$ FT.

XHRF $1.38370 \times 10^{+01}$ IN.

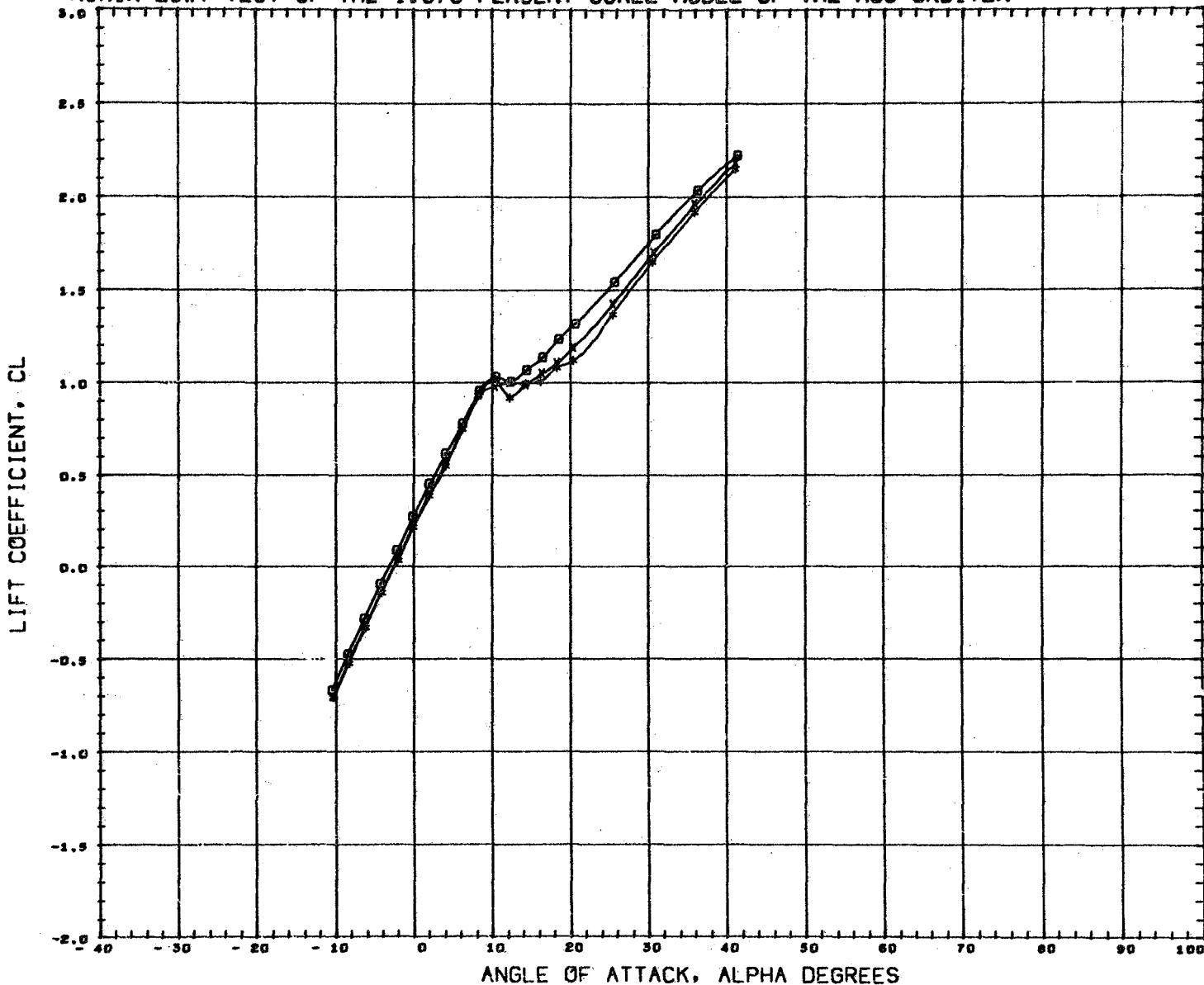
YHRF $0.00000 \times 10^{+00}$ IN.

ZHRF 2.40000×10^{-02} IN.

SCALE 1.87500×10^{-02} SCALE

REFERENCE FILE SDY 37100190

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



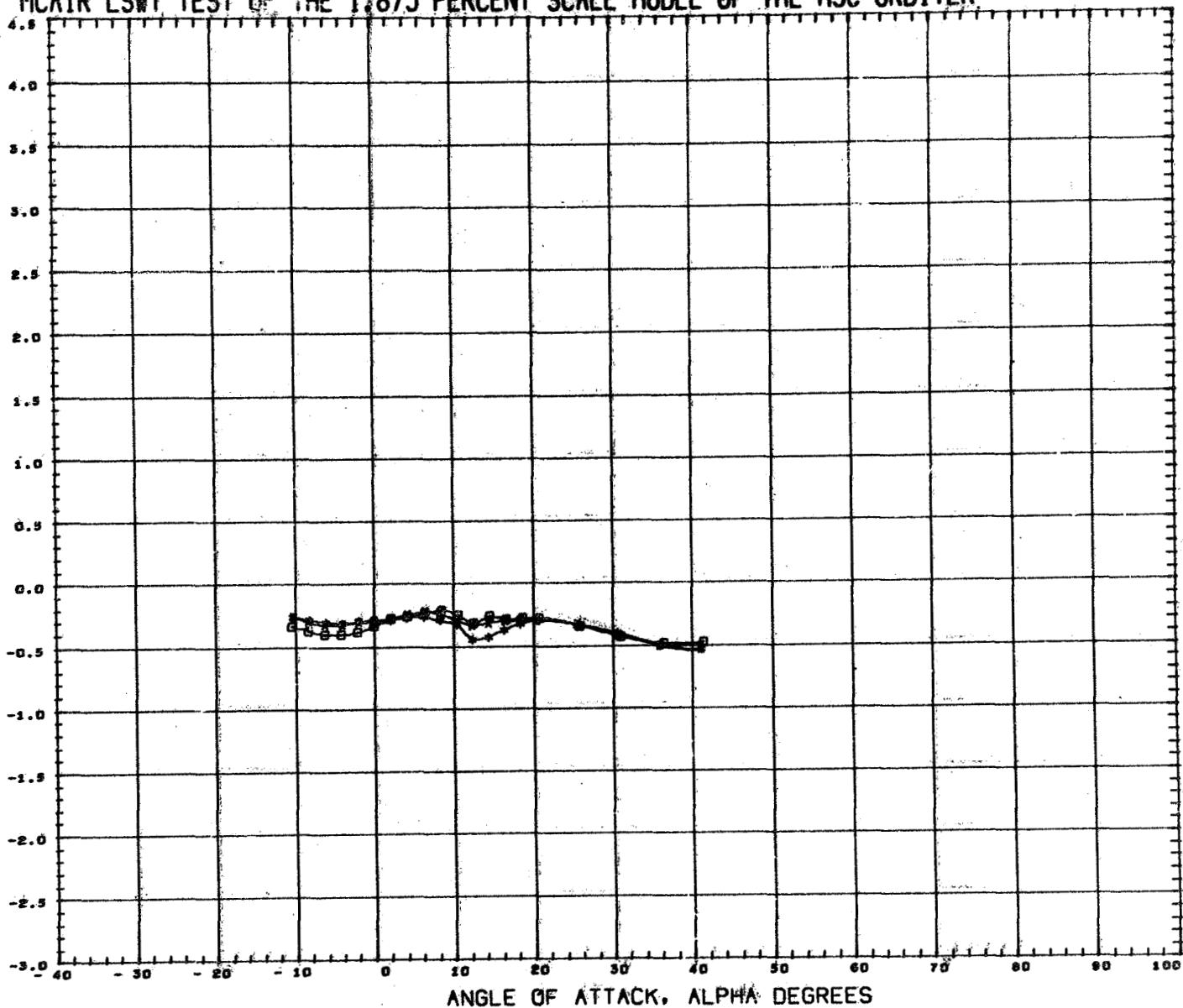
SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
 X LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
 O LSWT 223 1.875 PC MOD S5 ORB. B1H6W1

DATA SET	DATE	MACH	REFERENCE INFORMATION
(BC1050)	28 JUL 70	0.250	REFS 3.20800X10 ⁻⁰¹ SQ.FT.
(BC1053)	28 JUL 70		REFL 2.31700X10 ⁺⁰⁰ FT.
(BC1054)	28 JUL 70		REFB 1.50000X10 ⁺⁰¹ FT.
			XNRP 1.38370X10 ⁺⁰¹ IN.
			YNRP 0.00000X10 ⁺⁰⁰ IN.
			ZNRP 2.40000X10 ⁺⁰⁰ IN.
			SCALE 1.87500X10 ⁻⁰² SCALE

REFERENCE FILE: SDY 37100150

PITCHING MOMENT COEFFICIENT, CNM

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
 X LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
 G LSWT 223 1.875 PC MOD S5 ORB. B1H6W1

DATA SET DATE MACH
 (BC1050) 28 JUL 70 0.250
 (BC1053) 28 JUL 70
 (BC1054) 28 JUL 70

REFERENCE INFORMATION
 REFS 3.20900×10^{-02} 50. FT.
 REFL 2.31700×10^{-01} FT.
 REFB $1.50000 \times 10^{+00}$ FT.
 XHRF $1.58370 \times 10^{+01}$ IN.
 YHRP $0.00000 \times 10^{+00}$ IN.
 ZMRP $2.40000 \times 10^{+00}$ IN.
 SCALE 1.87500×10^{-02} SCALE

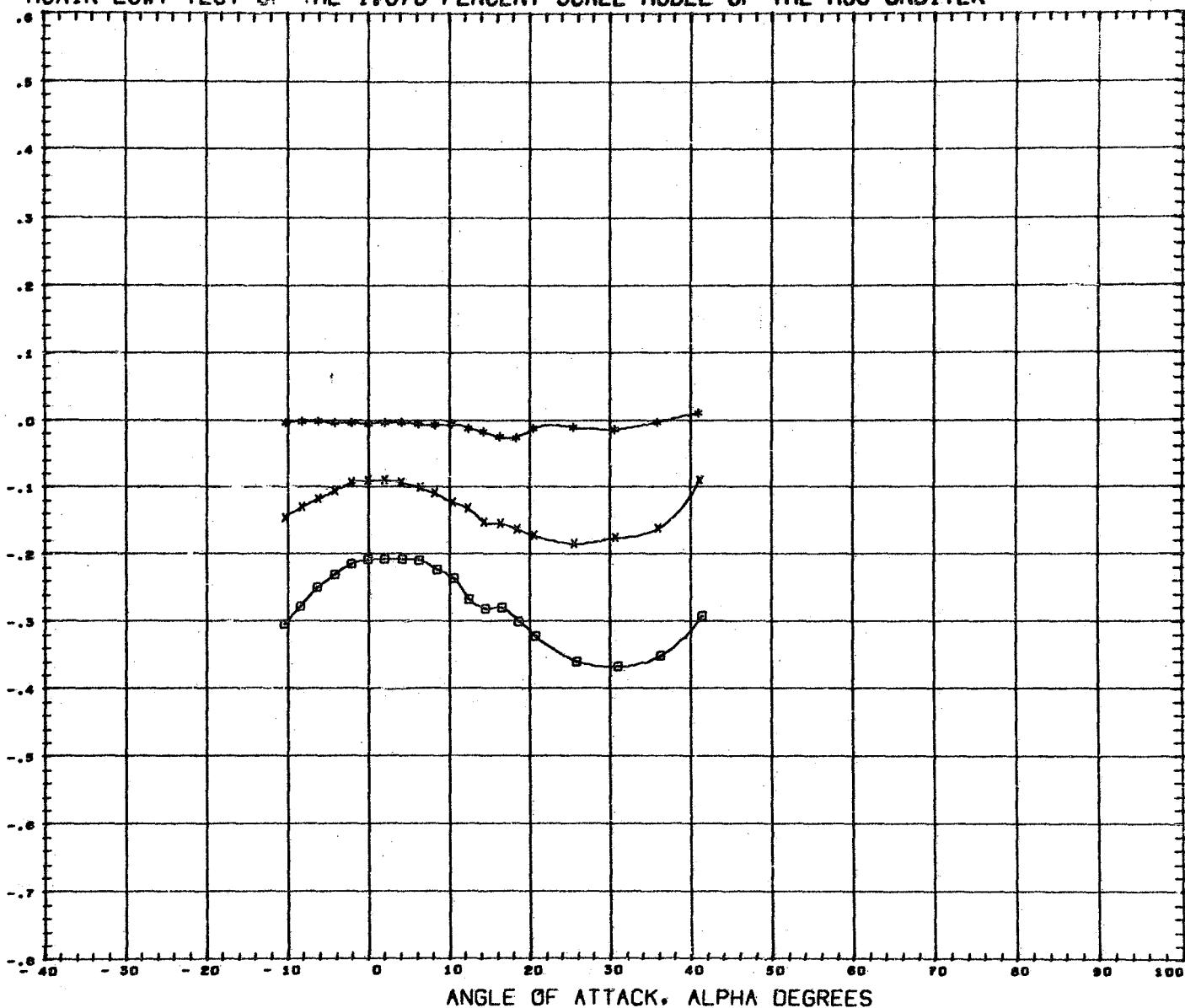
REFERENCE FILE

SDY 37100150

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

LATERAL FORCE COEFFICIENT, CY



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
 x LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
 □ LSWT 223 1.875 PC MOD S5 ORB. B1H6W1

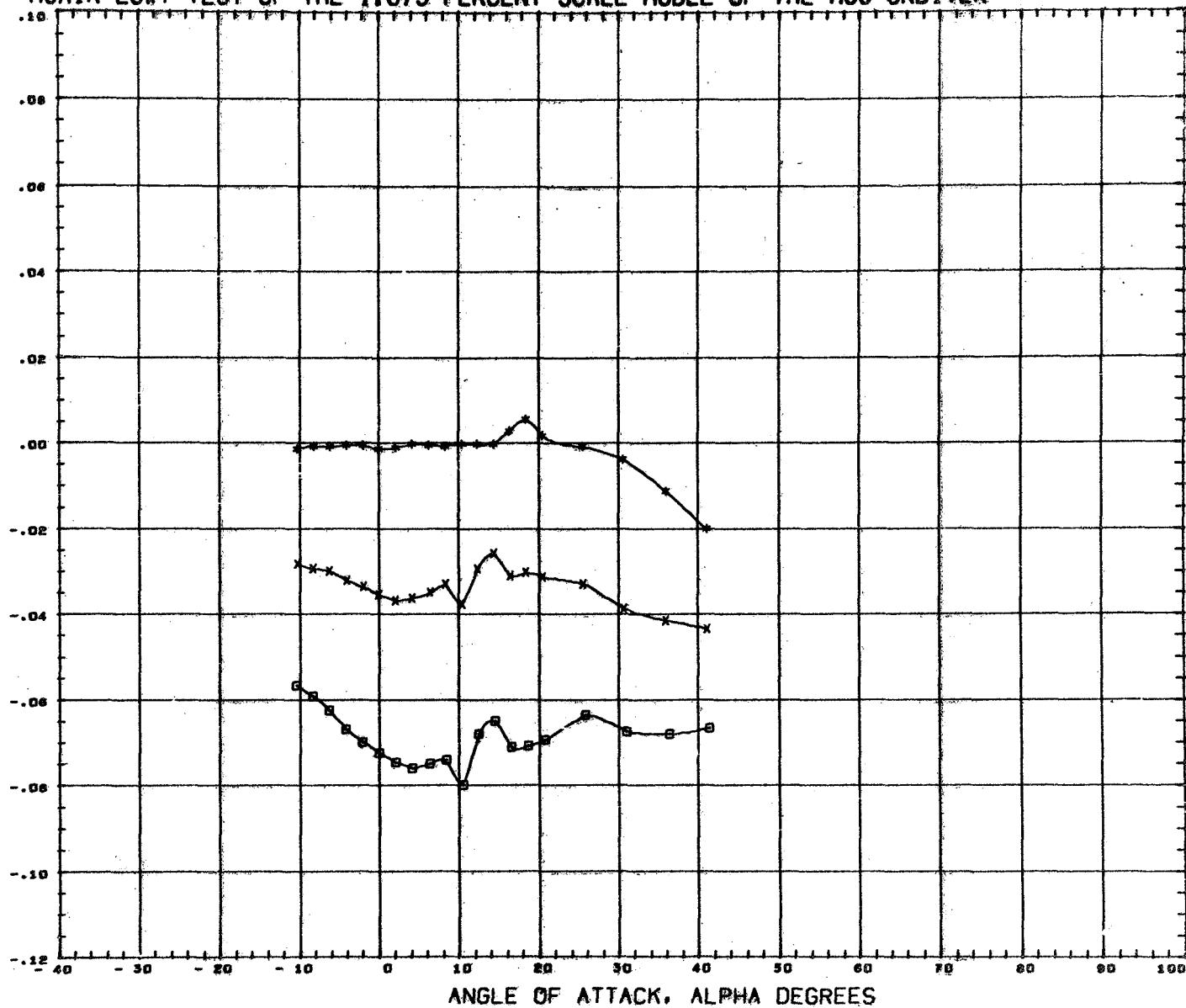
DATA SET DATE MACH:
 (BC1050) 26 JUL 70 0.250
 (BC1053) 26 JUL 70
 (BC1054) 26 JUL 70

REFERENCE INFORMATION
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 REFB 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰¹ FT.
 XMRF 1.38370X10⁺⁰¹ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZMRF 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, C_{WY}



SYMBOL CONFIGURATION DESCRIPTION

* LSWT 223 1.875 PC MOD SS ORB. B1H6W1

X LSWT 223 1.875 PC MOD SS ORB. B1H6W1

G LSWT 223 1.875 RC MOD SS ORB. B1H6W1

DATA SET DATE MACH REFERENCE INFORMATION

(BC1050) 28 JUL 70 0.250 REFS 3.20800X10⁻⁰¹ SQ.FT.

(BC1053) 28 JUL 70 0.250 REFL 2.31700X10⁺⁰⁰ FT.

(BC1054) 28 JUL 70 0.250 REFB 1.90000X10⁺⁰¹ FT.

 XMRP 1.36370X10⁺⁰¹ IN.

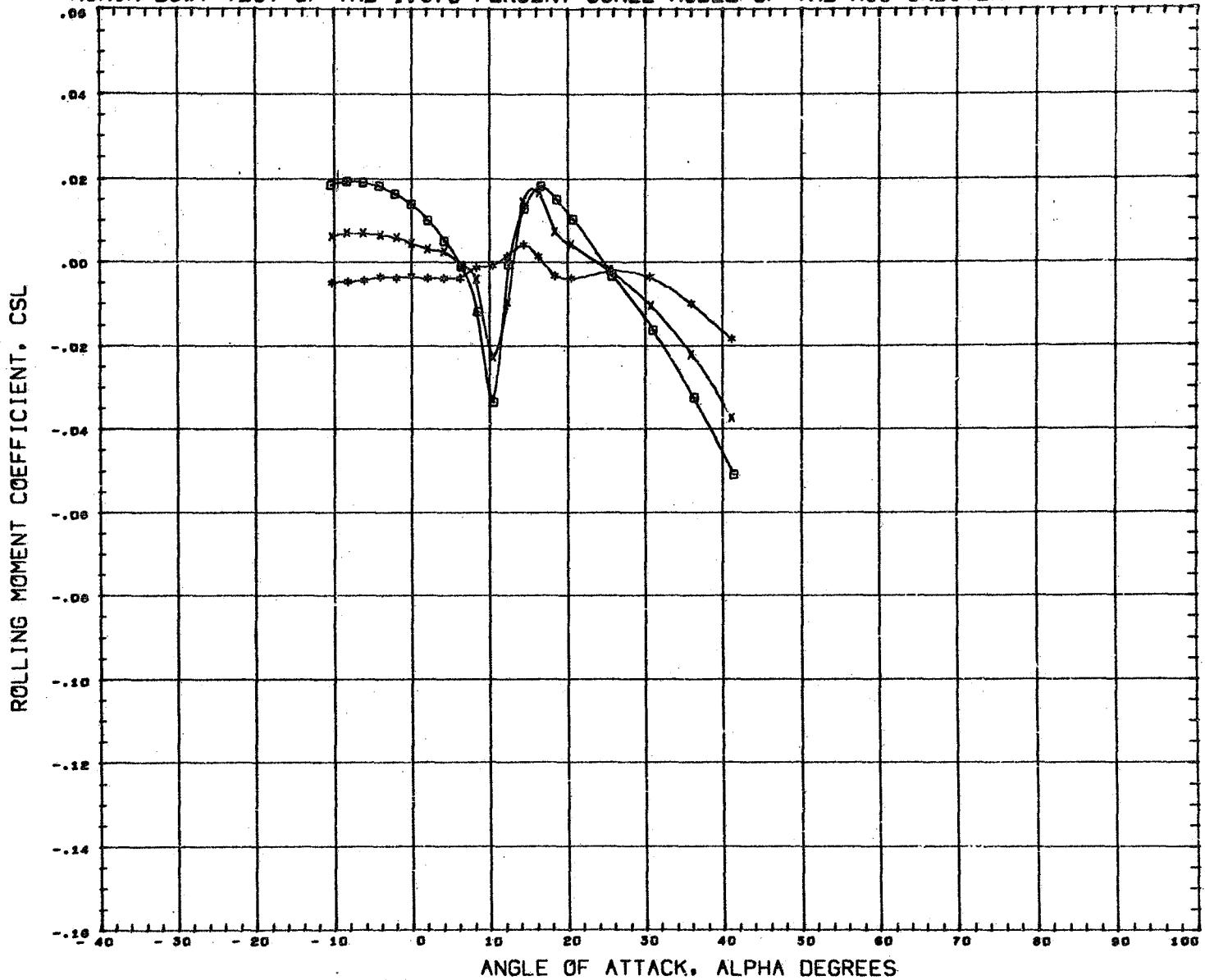
 YMRF 0.00020X10⁺⁰⁰ IN.

 ZMRP 2.40000X10⁺⁰² IN.

 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL CONFIGURATION DESCRIPTION

* LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
 X LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
 @ LSWT E23 1.875 PC MOD S5 ORB. B1H6W1

DATA SET DATE MACH

(BC1050) 28 JUL 70 0.250
 (BC1053) 28 JUL 70
 (BC1054) 28 JUL 70

REFERENCE INFORMATION

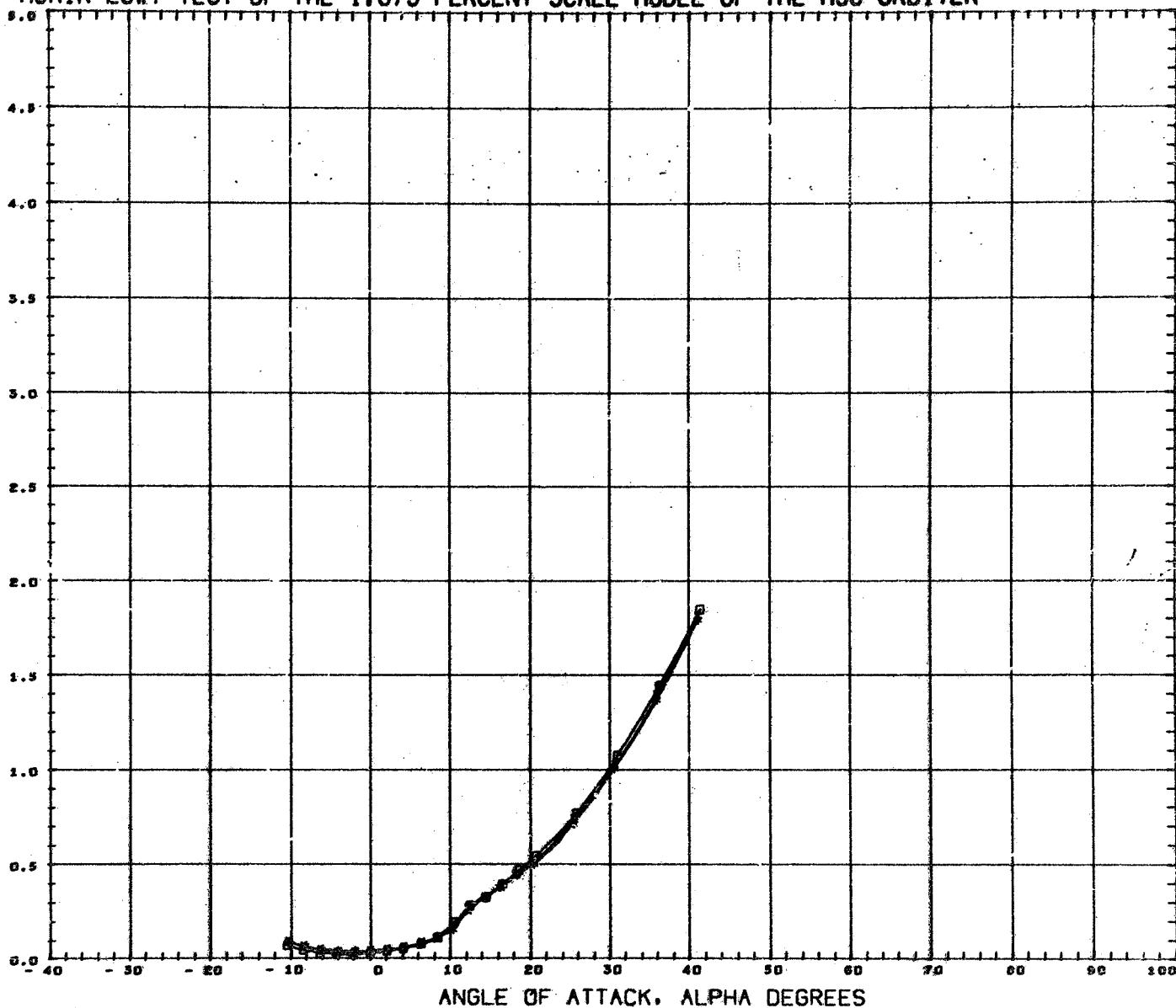
REFS	3.20800×10^{-01}	SQ.FT.
RFL	$2.31700 \times 10^{+00}$	FT.
REL	$1.50000 \times 10^{+00}$	FT.
XHMP	$1.38370 \times 10^{+01}$	IN.
YHMP	$0.00000 \times 10^{+00}$	IN.
ZHMP	2.40000×10^{-02}	IN.
SCALE	1.87500×10^{-02}	SCALE

REFERENCE FILE

SDY 37100150

TOTAL DRAG COEFFICIENT, CD

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD SS ORB. B1H6W1
 X LSWT 223 1.875 PC MOD SS ORB. B1H6W1
 G LSWT 223 1.875 PC MOD SS ORB. B1H6W1

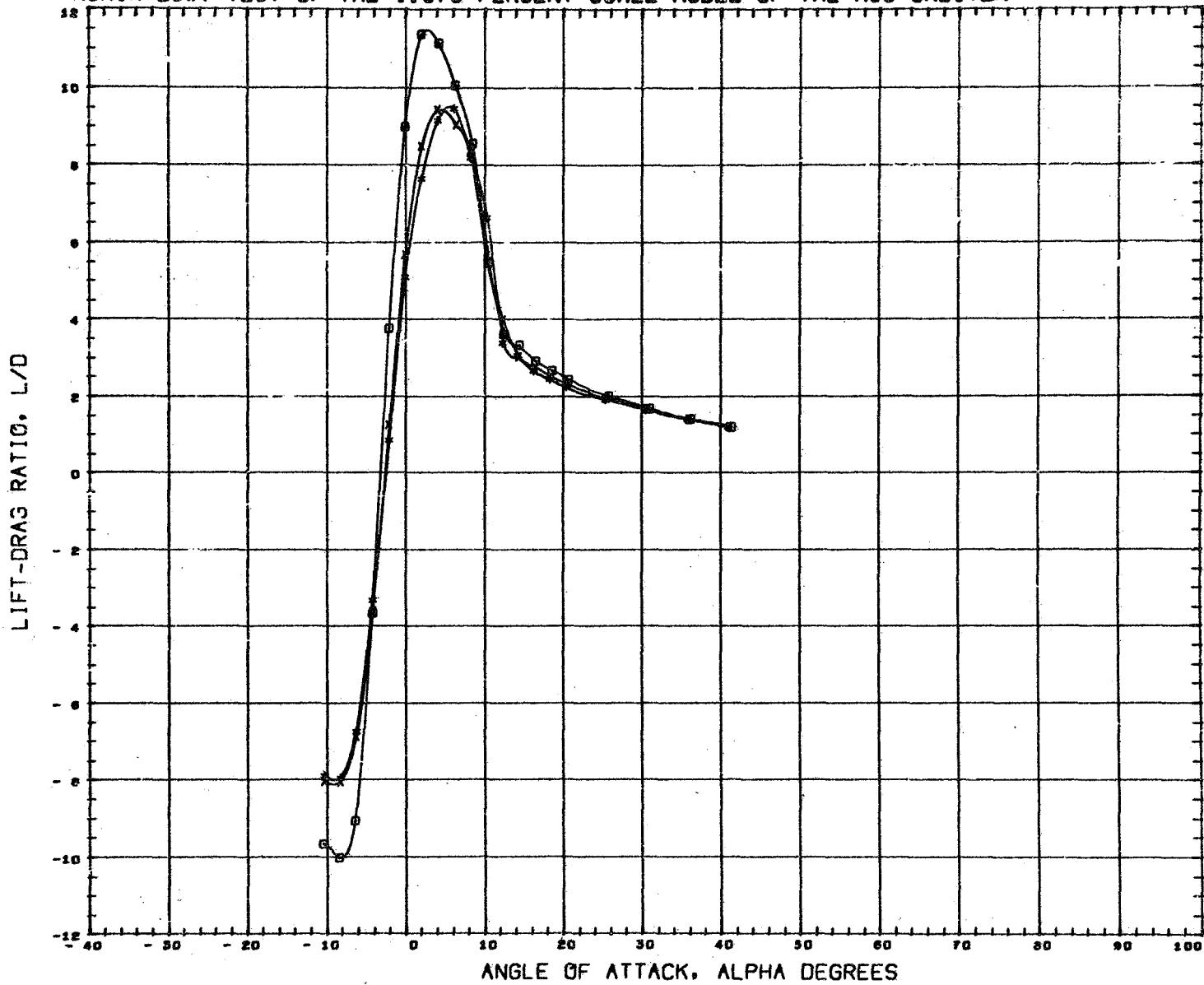
DATA SET DATE MACH
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 (BC1053) 28 JUL 70
 (BC1054) 28 JUL 70

REFERENCE INFORMATION
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 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰¹ FT.
 XMRP 1.38370X10⁺⁰¹ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE

SDY 37E00150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL CONFIGURATION DESCRIPTION
 * LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
 X LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
 O LSWT 223 1.875 PC MOD S5 ORB. B1H6W1

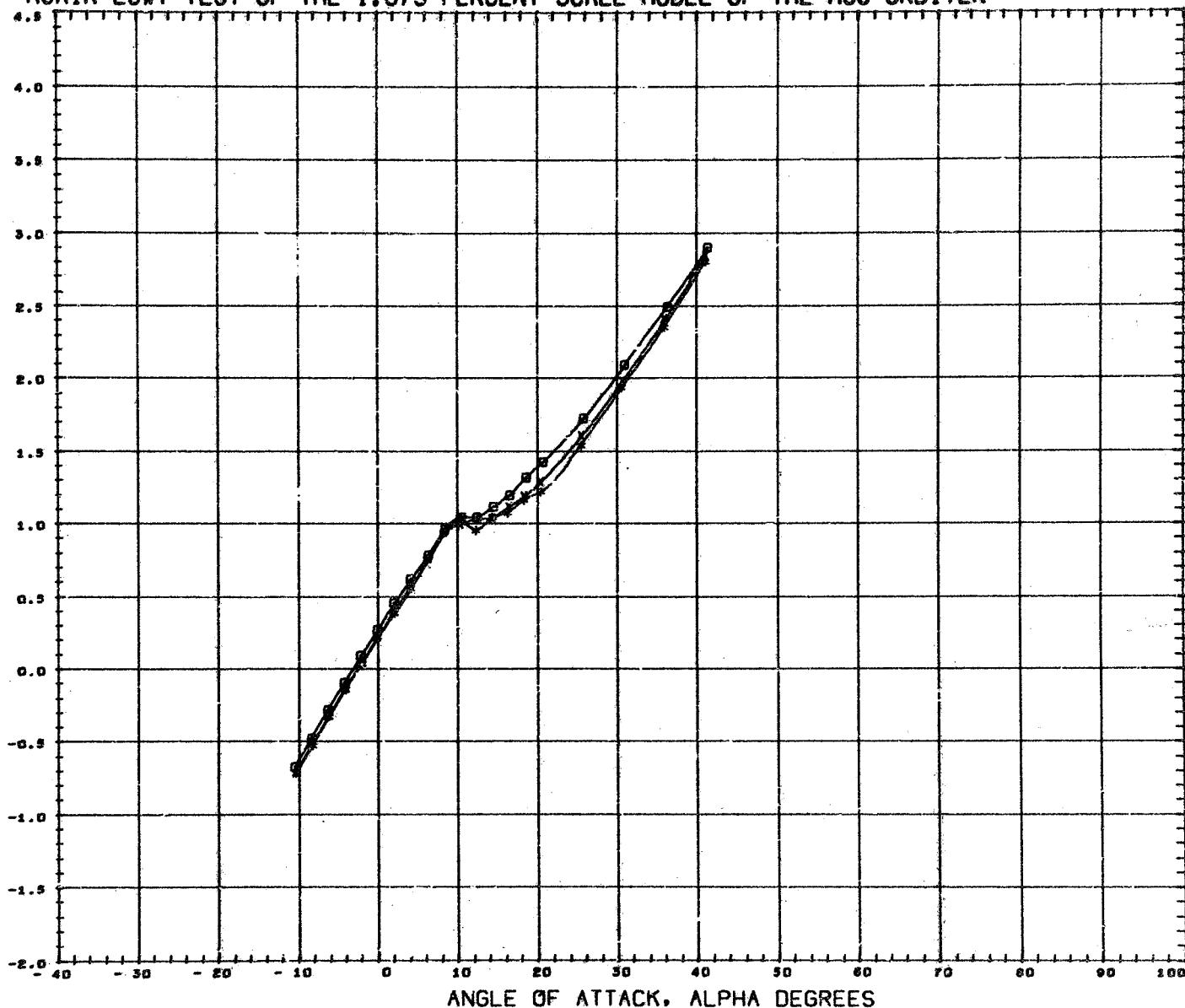
DATA SET DATE MACH
 (BC1050) 28 JUL 70 0.250
 (BC1053) 28 JUL 70
 (BC1054) 28 JUL 70

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁺⁰⁰ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XMRF 1.38370X10⁺⁰¹ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZMRF 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

NORMAL FORCE COEFFICIENT, CN



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL CONFIGURATION DESCRIPTION

* LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
 X LSWT 223 1.875 PC MOD S5 ORB. B1H6W1
 O LSWT 223 1.875 PC MOD S5 ORB. B1H6W1

DATA SET

(AC1050) 28 JUL 70 0.250
 (AC1053) 28 JUL 70
 (AC1054) 28 JUL 70

DATE

MACH

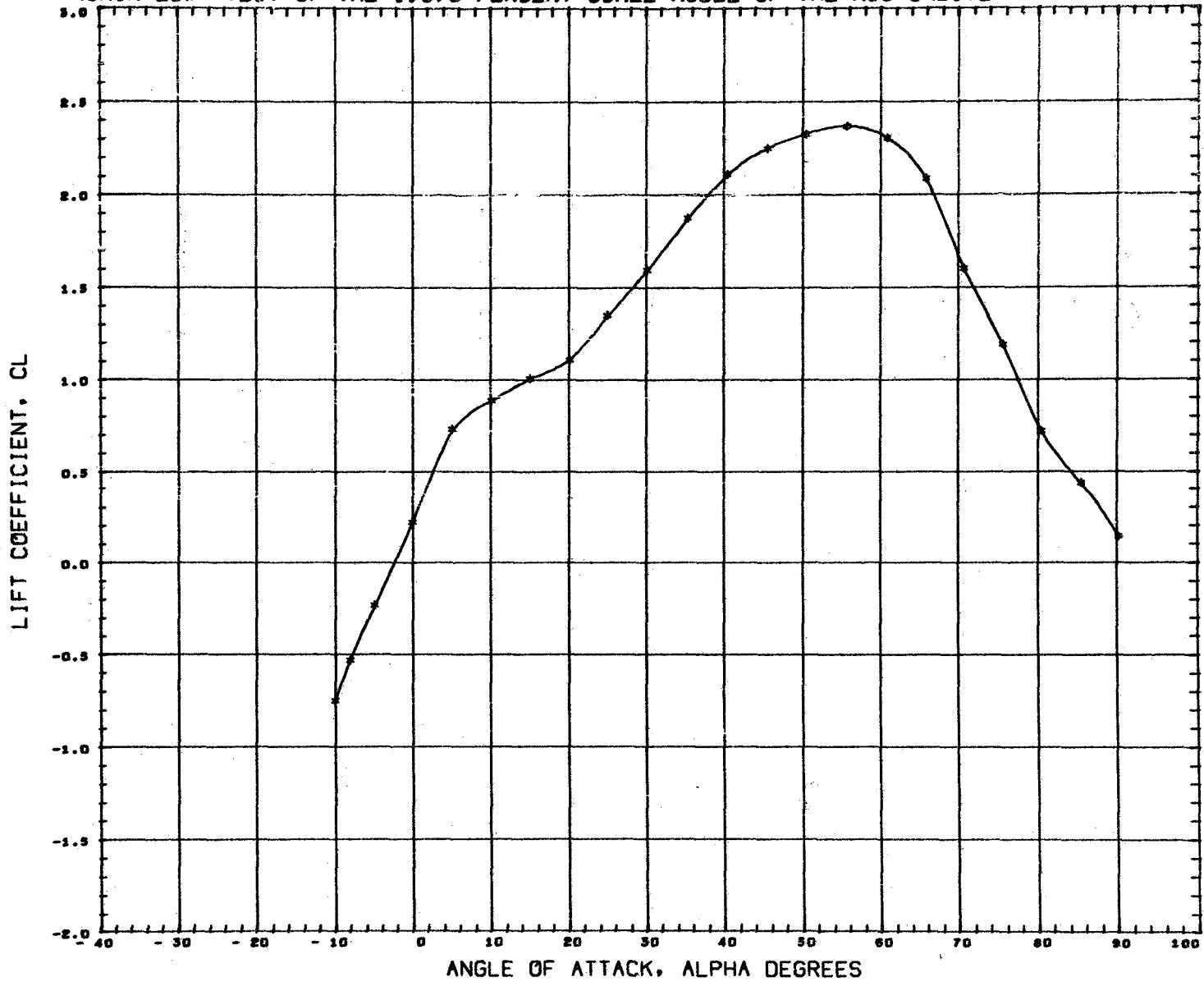
REFERENCE INFORMATION

REFS 3.20000X10⁻⁰¹ 36. FT.
 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XHRF 1.38370X10⁺⁰¹ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZHRF 2.40000X10⁺⁰⁰ IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE

SDY 3.100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

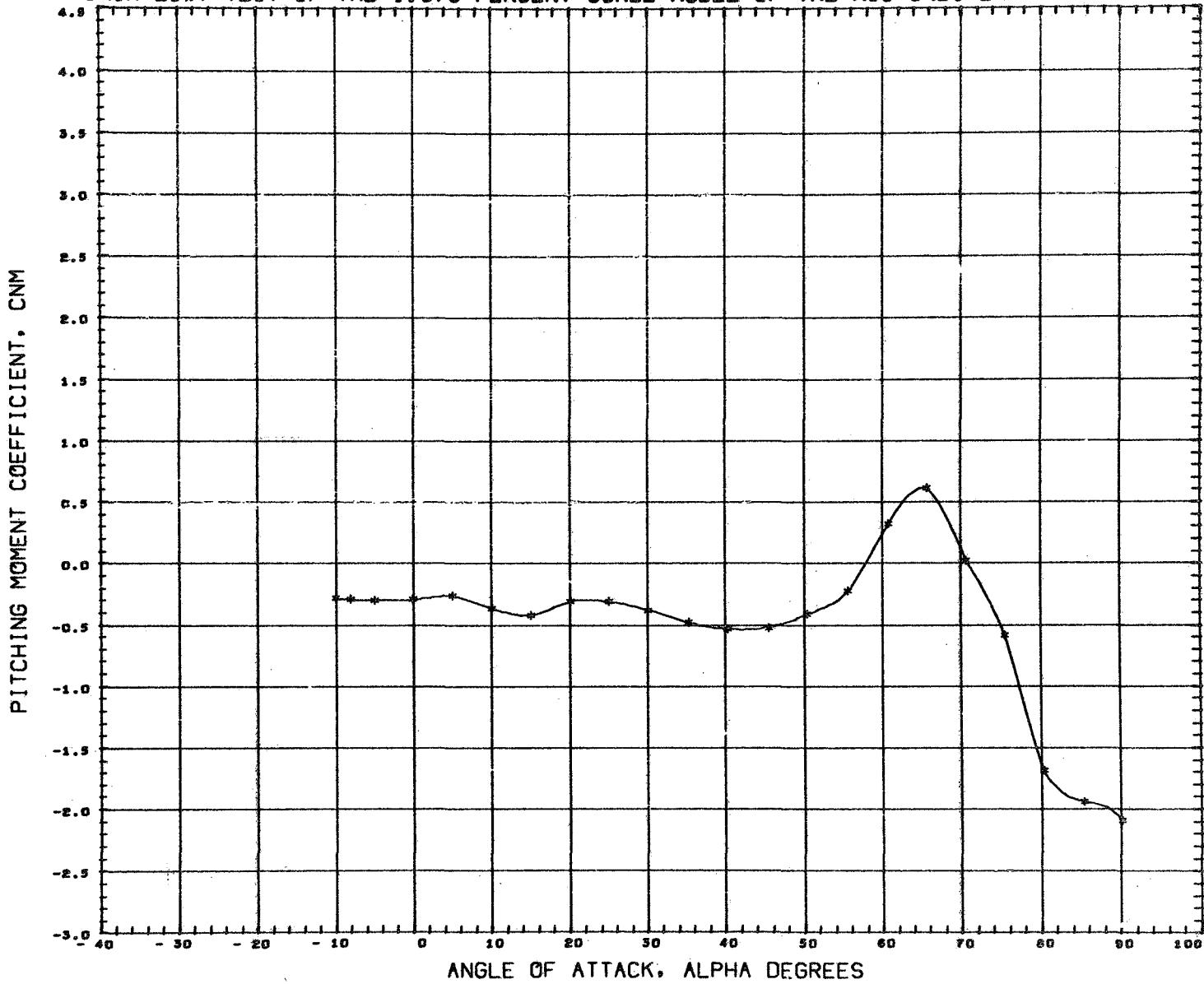


SYMBOL MACH
* 0.170 BETA 0.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGLO 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁻⁰⁰ FT.
XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



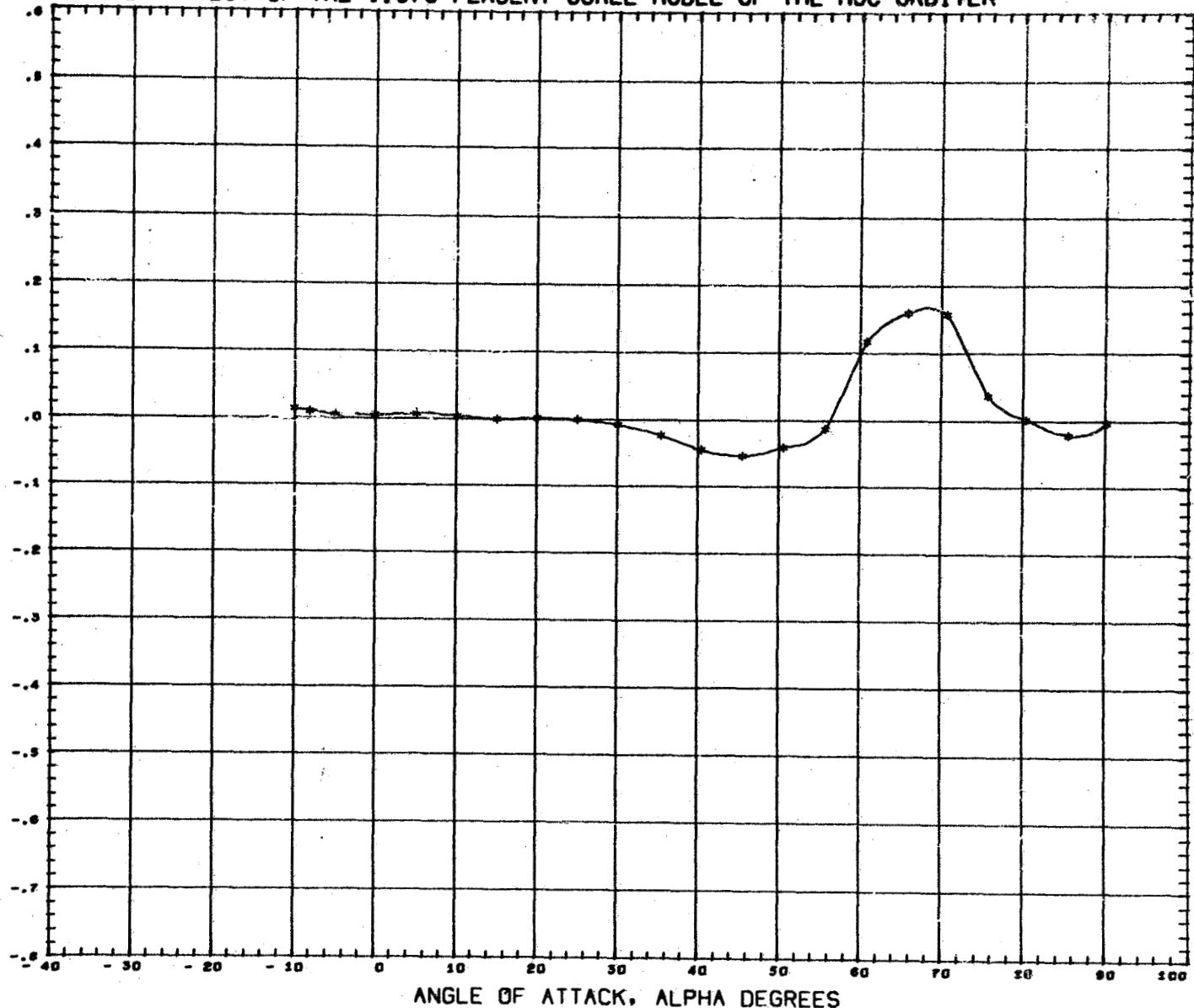
SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 0.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGLO 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XHRP 1.38370X10⁺⁰¹ IN.
YHRP 0.00000X10⁺⁰⁰ IN.
ZHRP 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

LATERAL FORCE COEFFICIENT, CY



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL MACH PARAMETRIC VALUES

*	0.170	BETA	0.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGLO	12.211		

REFERENCE FILE SDY 37100150

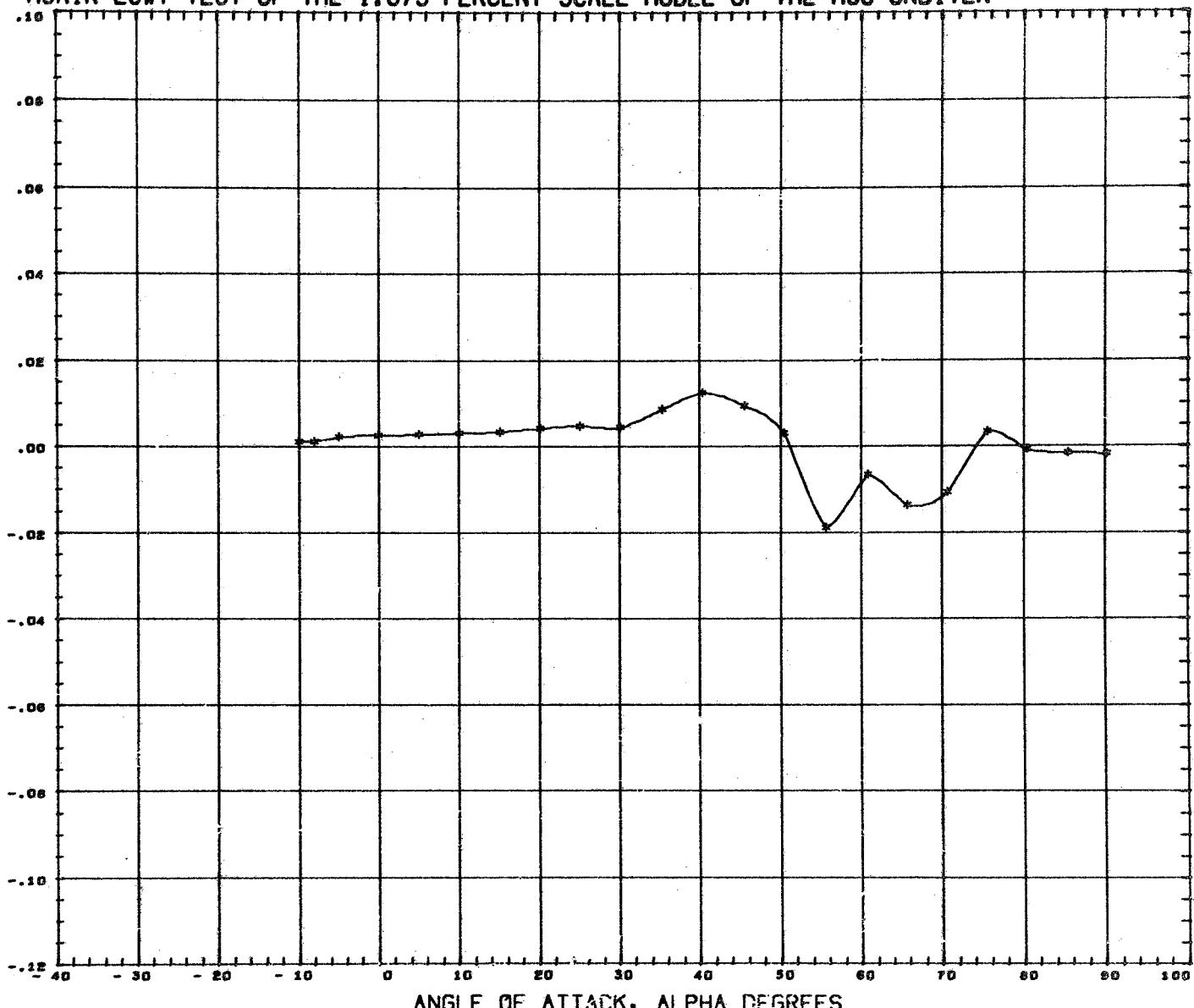
REFERENCE INFORMATION		
REFS	3.20800×10^{-01}	SQ.FT.
REFL	2.31700×10^{-01}	FT.
REFB	$1.50000 \times 10^{+00}$	FT.
XMRP	$1.38370 \times 10^{+01}$	IN.
YMRP	$0.00000 \times 10^{+00}$	IN.
ZMRP	2.40000×10^{-02}	IN.
SCALE	1.87500×10^{-02}	SCALE

LSWT 223 1.875 PC MOD SS ORB. B1H6V3WI (FWD)

(RC1F09) 28 JUL 70 PAGE 169

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, CWN



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	0.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGLO	12.211		

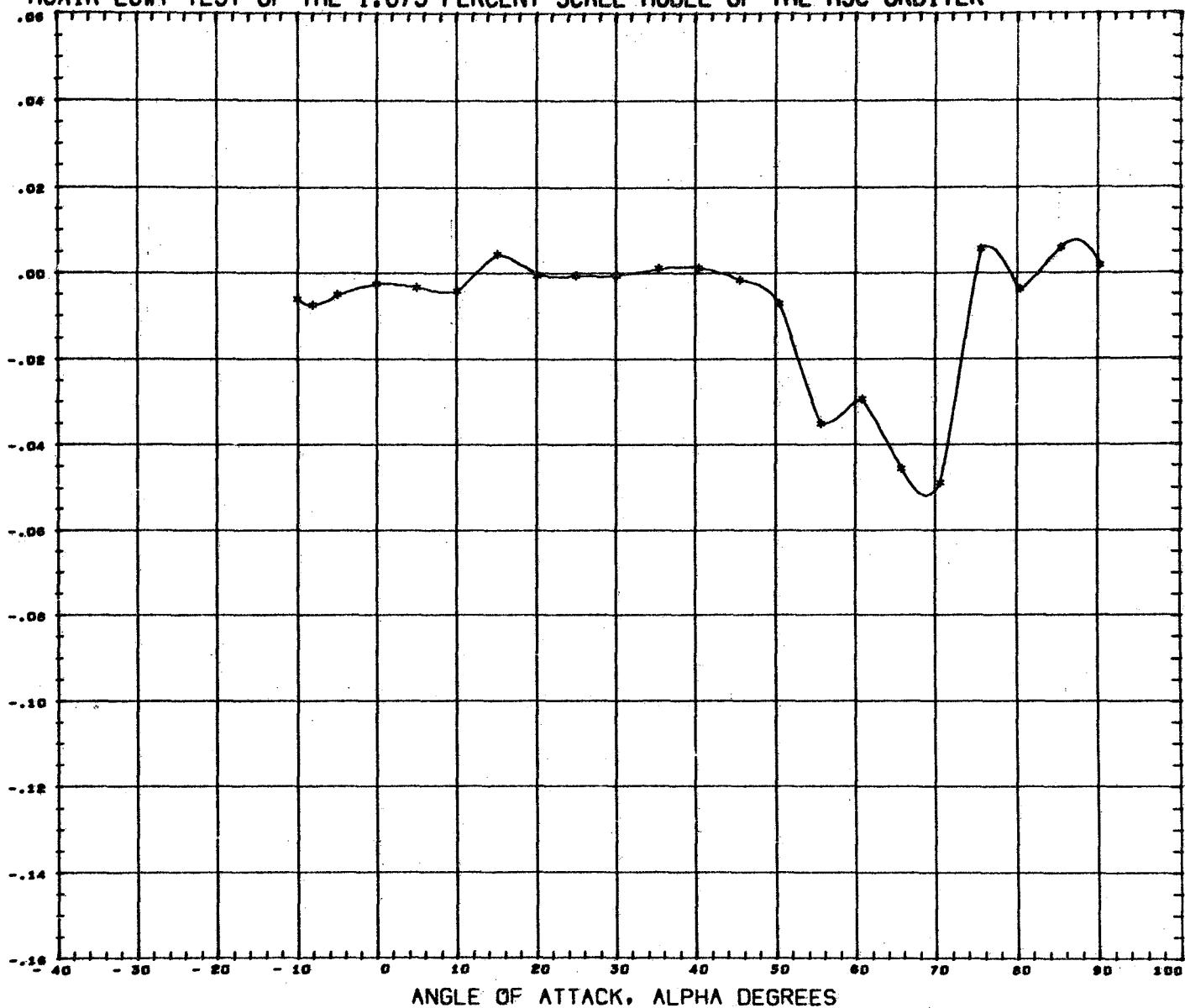
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION		
REFS	3.20800×10^{-01}	sq. ft.
REFL	2.31700×10^{-01}	ft.
REFB	$1.50000 \times 10^{+00}$	ft.
XHRF	$1.36370 \times 10^{+01}$	in.
YHRF	$0.00000 \times 10^{+00}$	in.
ZHRF	2.40000×10^{-02}	in.
SCALE	1.87500×10^{-02}	SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD) (RC1F09) 28 JUL 70 PAGE 170

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

ROLLING MOMENT COEFFICIENT, CSL

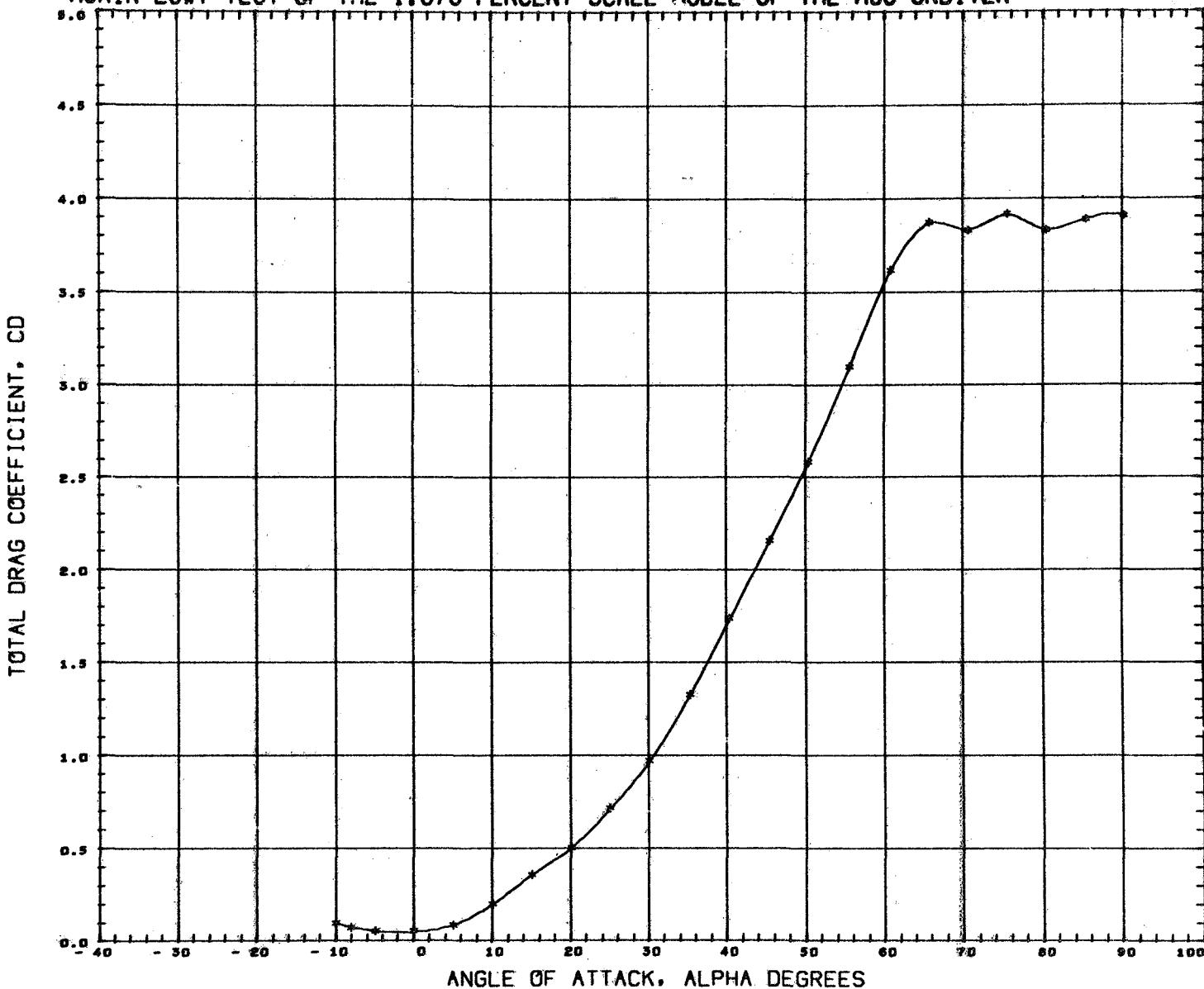


SYMBOL MACH PARAMETRIC VALUES
 * 0.170 BETA 0.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGLO 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SL.FT.
 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XMRP 1.38370X10⁺⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁺⁰⁰ IN.
 SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

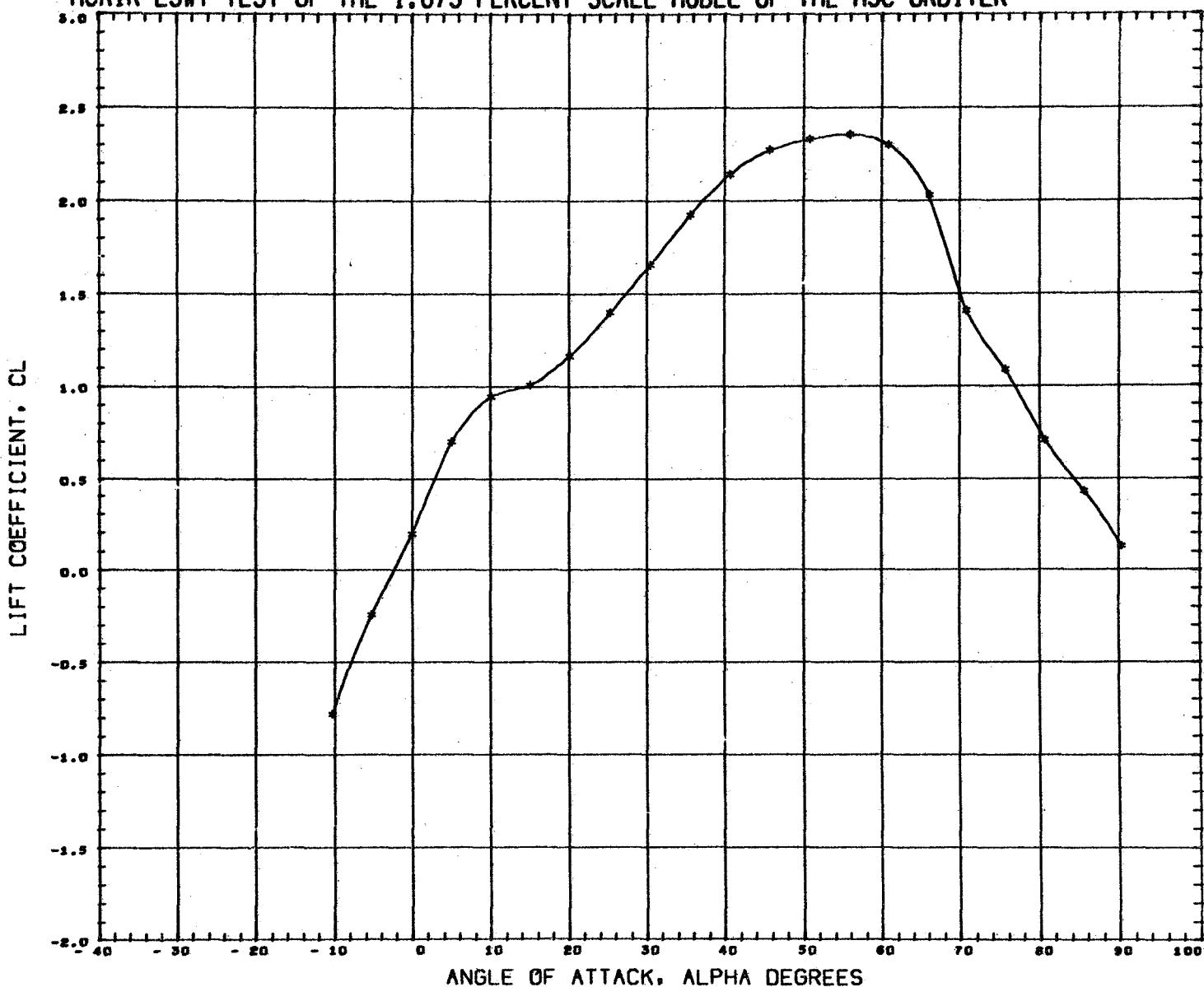


SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 0.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGLO 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XMRP 1.36370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



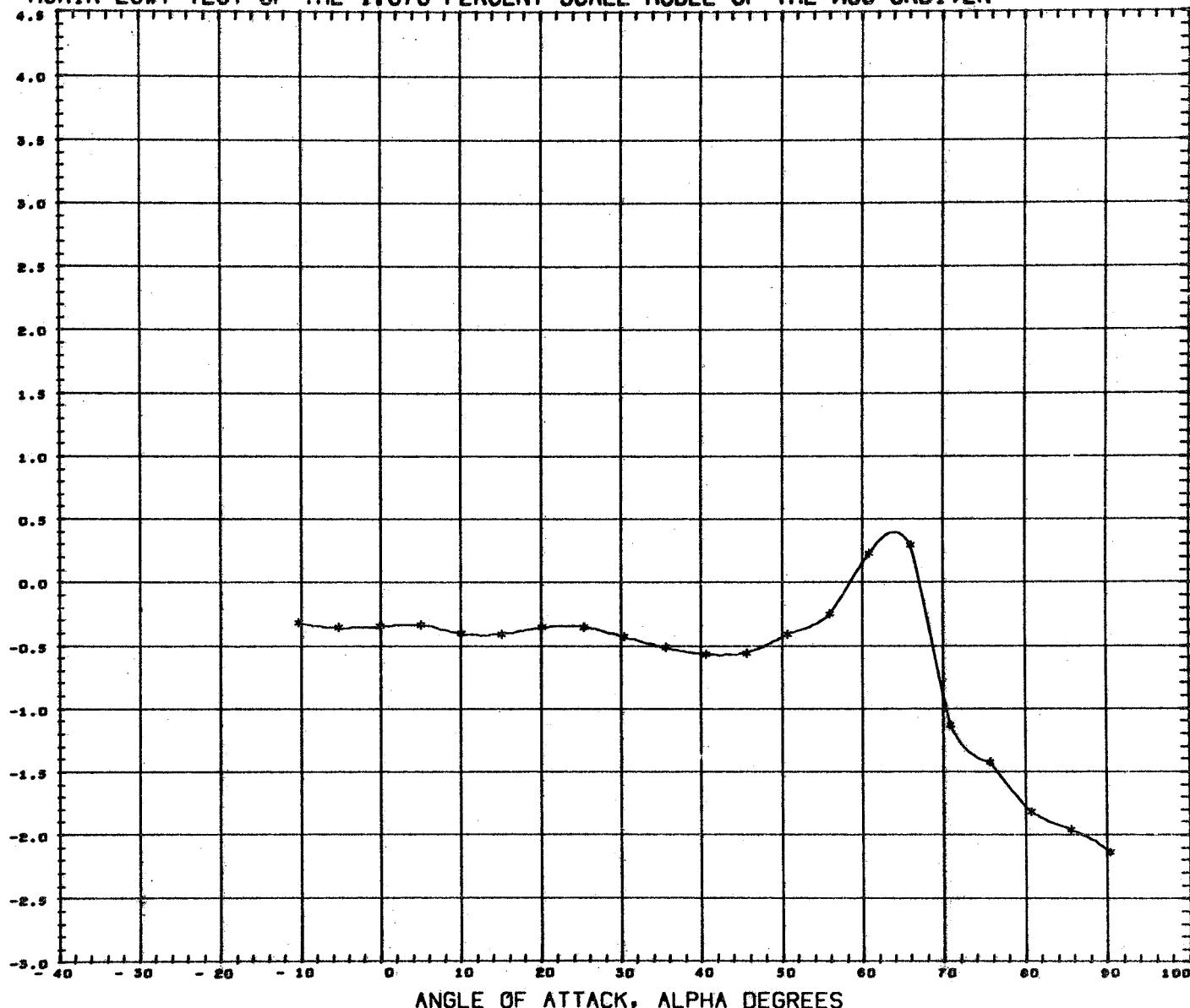
SYMBOL	MACH	PARAMETRIC VALUES		
*	0.170	BETA	- 5.000.	HTAIL 0.000
		ELEVTR	0.000	PHI 90.000
		WINGLO	12.211	

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION			
REFS	3.2080GX10 ⁻⁰¹	SQ.FT.	
REFL	3.3170DX10 ⁻⁰⁰	FT.	
REFB	1.5000DX10 ⁺⁰¹	FT.	
XMRP	1.3837DX10 ⁺⁰¹	IN.	
YMRP	0.0000DX10 ⁻⁰⁰	IN.	
ZMRP	2.4000DX10 ⁻⁰²	IN.	
SCALE	1.87300X10 ⁻⁰²	SCALE	

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CM



ANGLE OF ATTACK, ALPHA DEGREES

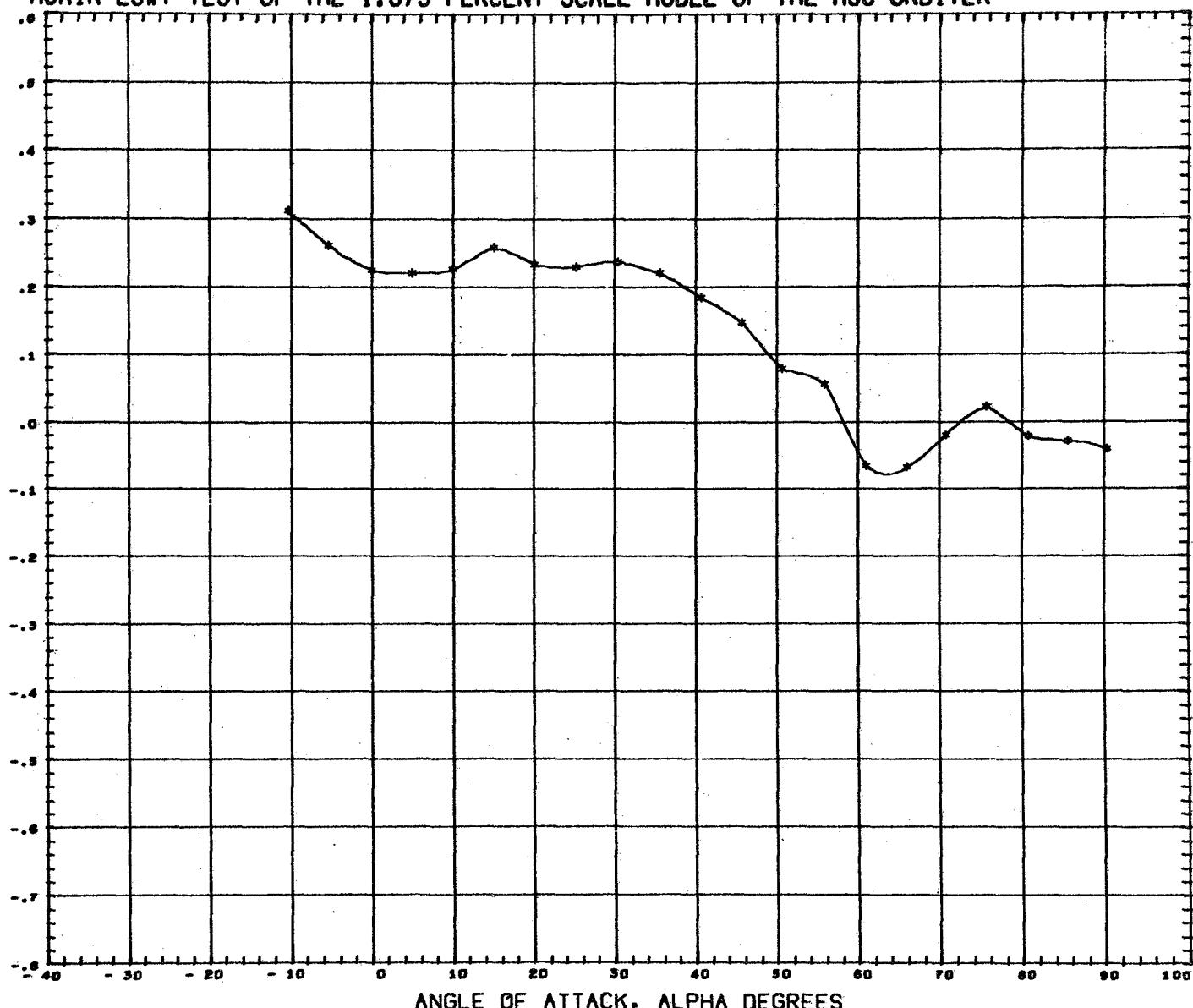
SYMBOL MACH PARAMETRIC VALUES
 * 0.170. BETA - 5.000 HTAIL 0.000
 ELEVTR 0.000 PHI 90.000
 WINGLO 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
 REFS 3.20600X10⁻⁰¹ Sq.FT.
 REFL 2.31700X10⁺⁰⁰ FT.
 REF8 1.50000X10⁺⁰¹ FT.
 XHRP 1.38370X10⁺⁰¹ IN.
 YHRP 0.00000X10⁺⁰⁰ IN.
 ZHRP 2.40000X10⁺⁰⁰ IN.
 SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

LATERAL FORCE COEFFICIENT, CY



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	- 5.000	HTAIL	0.000
		ELEVTR	0.000	PHI	90.000
		WINGLO	12.211		

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION	
REFS	3.20800×10^{-01} IN.
REFL	$2.31700 \times 10^{+00}$ FT.
REFB	$1.50000 \times 10^{+01}$ FT.
XHRP	$1.38370 \times 10^{+01}$ IN.
YNRP	$0.00000 \times 10^{+00}$ IN.
ZNRP	2.40000×10^{-02} IN.
SCALE	1.87500×10^{-02} SCALE

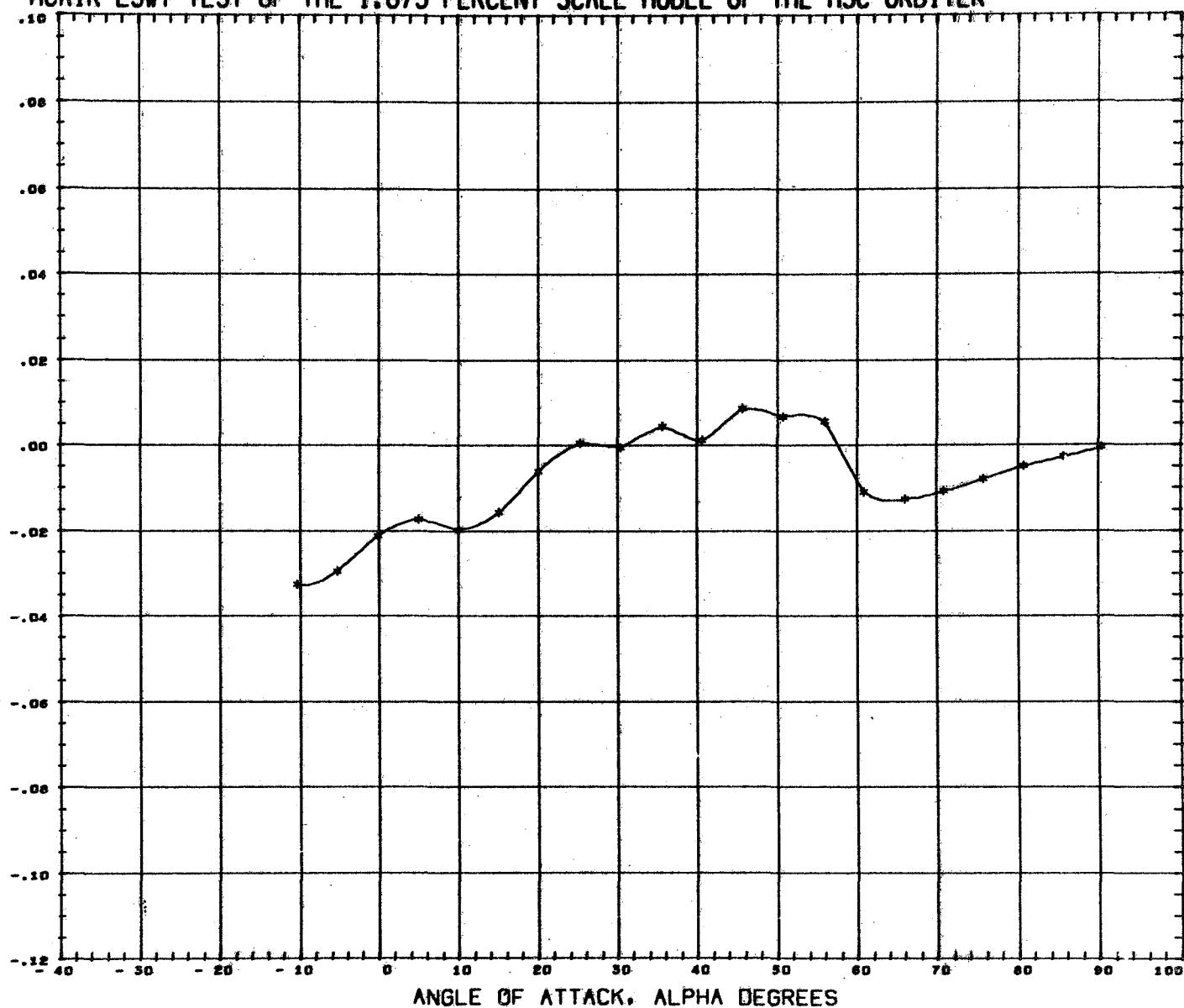
LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD)

(RC1F18) 28 JUL 70

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, C_{WY}



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA - 5.000 HTAIL 0.000
ELEVTR 0.000 PHI 90.000
WINGLO 12.211

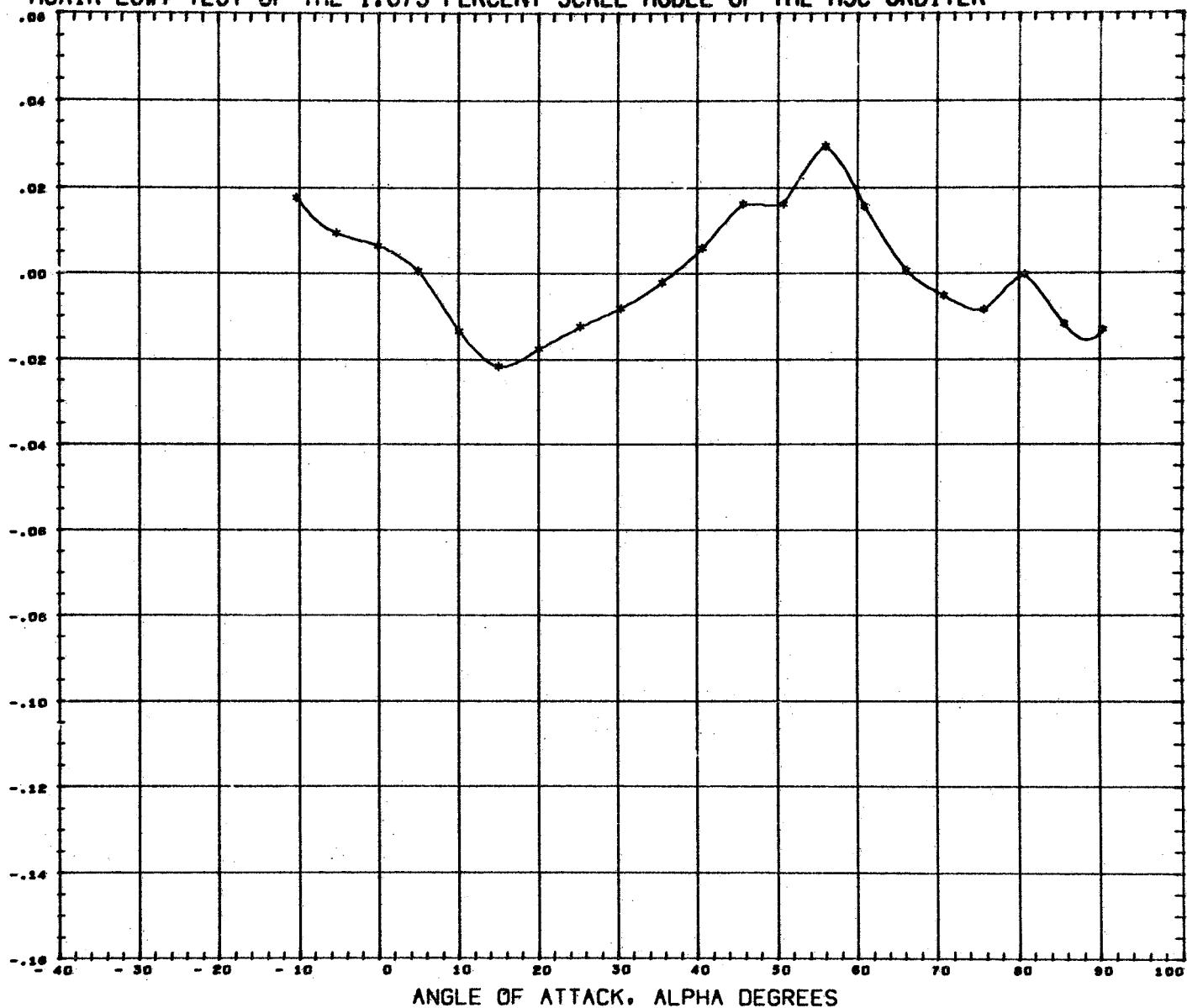
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ 58. FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XHRF 1.38370X10⁺⁰⁰ IN.
YHRP 0.00000X10⁺⁰⁰ IN.
ZHRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6V3W1 (FWD) (RC1F18) 28 JUL 70 PAGE 176

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

ROLLING MOMENT COEFFICIENT, CSL



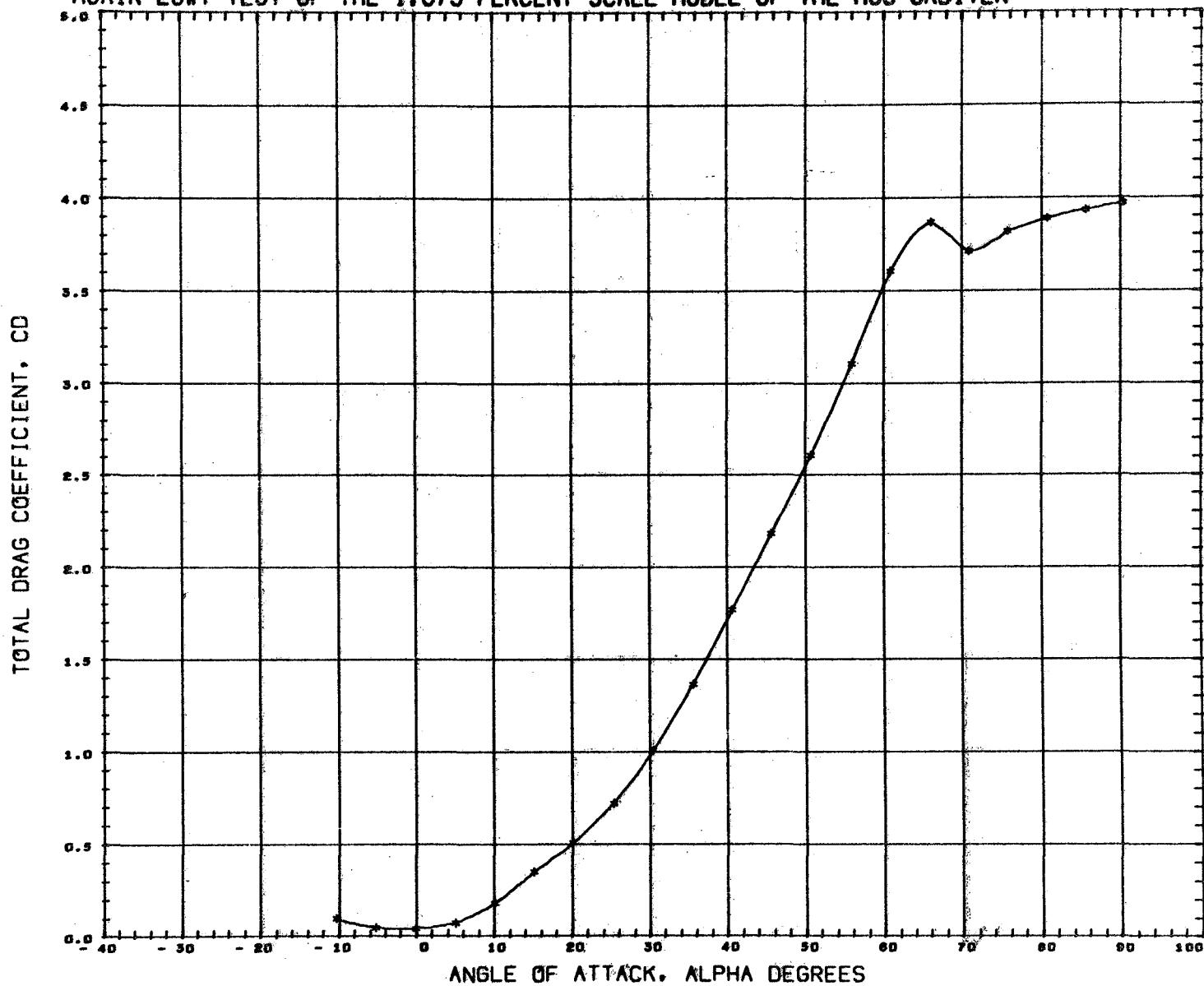
SYMBOL MACH PARAMETRIC VALUES

* 0.170 BETA - 5.000 HTAIL 0.000
 ELEVTR 0.000 PHI 90.000
 WINGLO 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰¹ FT.
 XMRP 1.38370X10⁺⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁺⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES	
*	0.170	BETA	- 5.000 HTMIL
		ELEVTR	0.000 PHI
		HNGL0	12.211

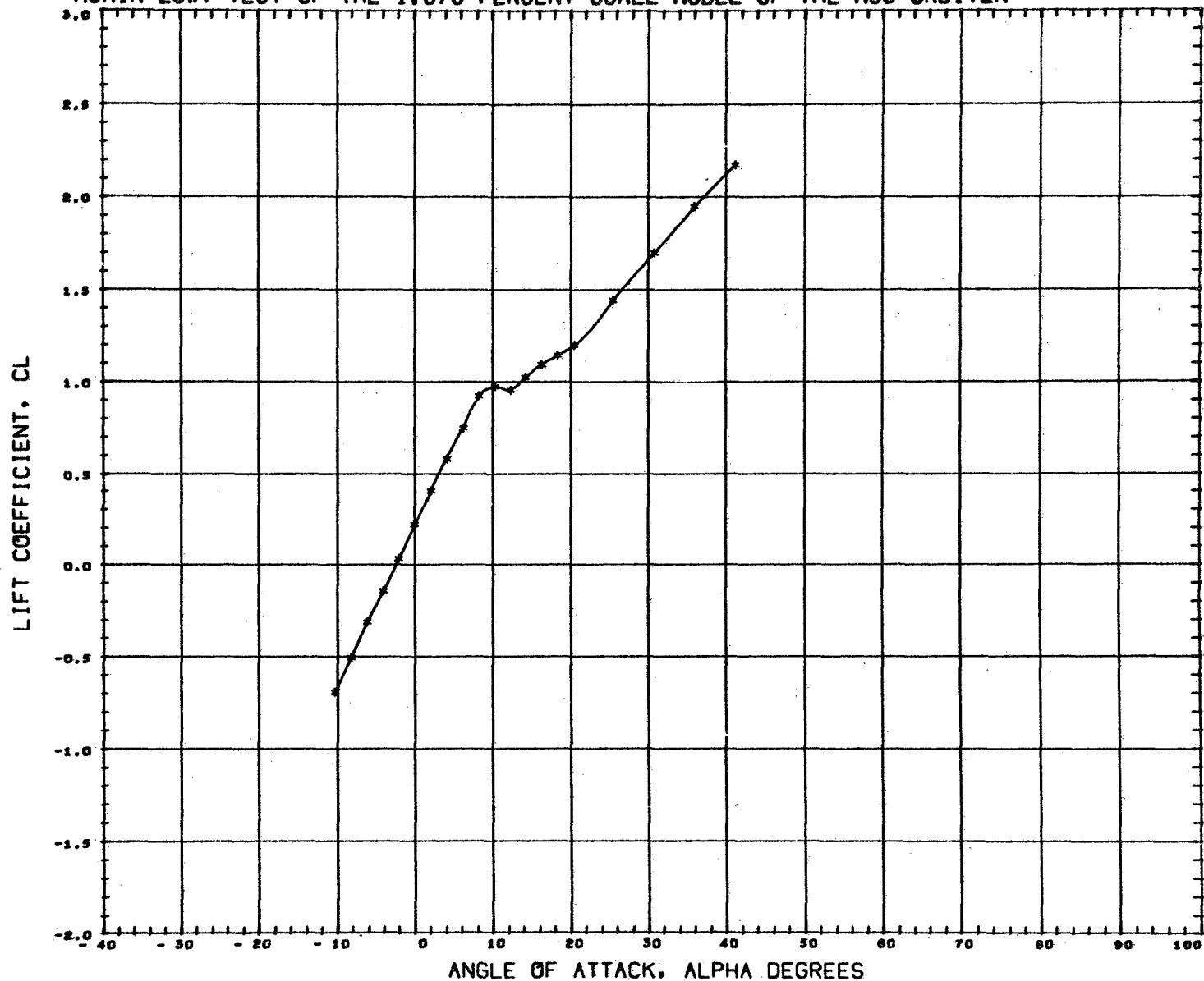
ANGLE OF ATTACK. ALPHA DEGREES

REFERENCE INFORMATION	
REFS	3.20800X10 ⁻⁰¹
REFL	2.31700X10 ⁻⁰¹
REFR	1.50000X10 ⁺⁰⁰
XHRF	1.38370X10 ⁺⁰⁰
YHRF	0.00000X10 ⁺⁰⁰
ZHRF	2.40000X10 ⁺⁰⁰
SCALE	8.37500X10 ⁻⁰²

REFERENCE FILE SDY 37100150

LSWT 223 1.875 PC M00 S5 ORB. B1H6V3W1 (FWD) [CRC1F18] 28 JUL 70 PAGE 178

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES			
•	0.250	BETA	5.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGLO	14.157		

REFERENCE INFORMATION			
REFS	3.26800×10^{-01}	SQ.FT.	
REFL	2.31700×10^{-01}	FT.	
REFB	$1.50000 \times 10^{+00}$	FT.	
XMRP	$1.38370 \times 10^{+01}$	IN.	
YMRP	$0.00000 \times 10^{+00}$	IN.	
ZMRP	$2.40000 \times 10^{+00}$	IN.	
SCALE	1.87500×10^{-02}	SCALE	

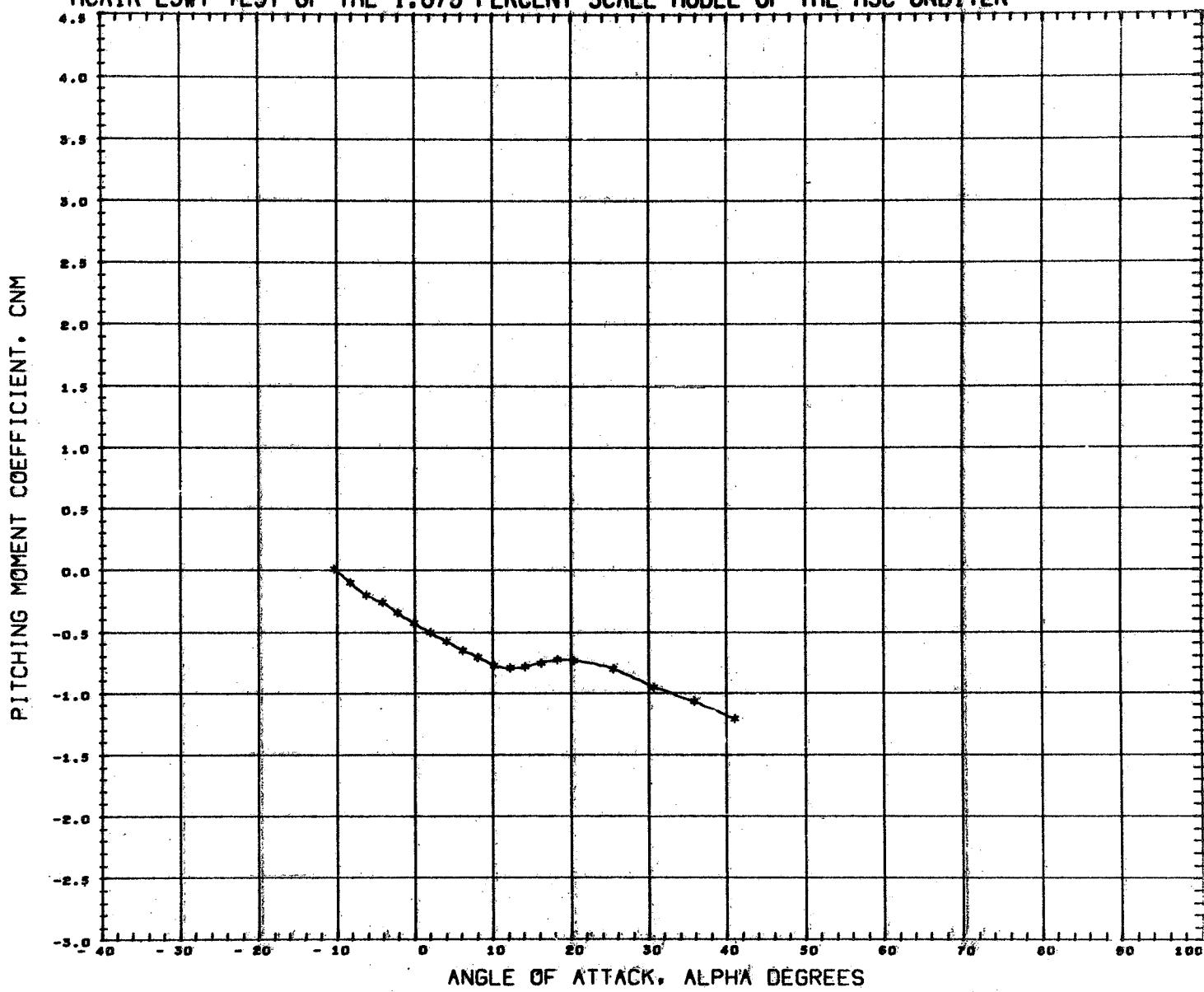
REFERENCE FILE SDY 37100150

L5WT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)

(RC1A03) 28 JUL 70

(RC1A03) 28 JUL 70 PAGE 179

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



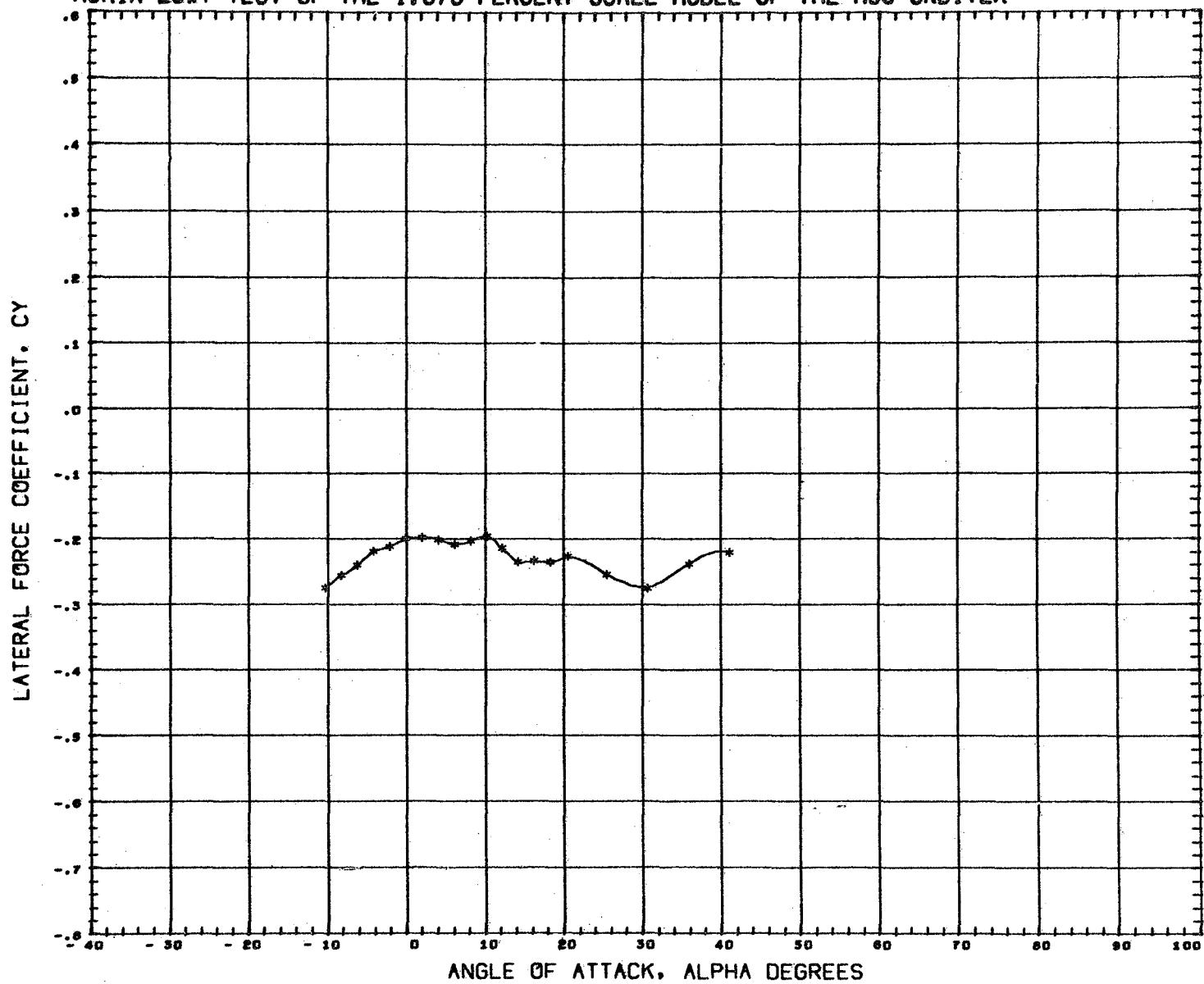
SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 5.000 HTAIL 0.000
ELEVTR 0.000 PHT 0.000
WINGLO 84.157

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XHDF 1.38370X10⁺⁰⁰ IN.
YHDF 0.00000X10⁺⁰⁰ IN.
ZHDF 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT) (RC1A03) 28 JUL 70 PAGE 180

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

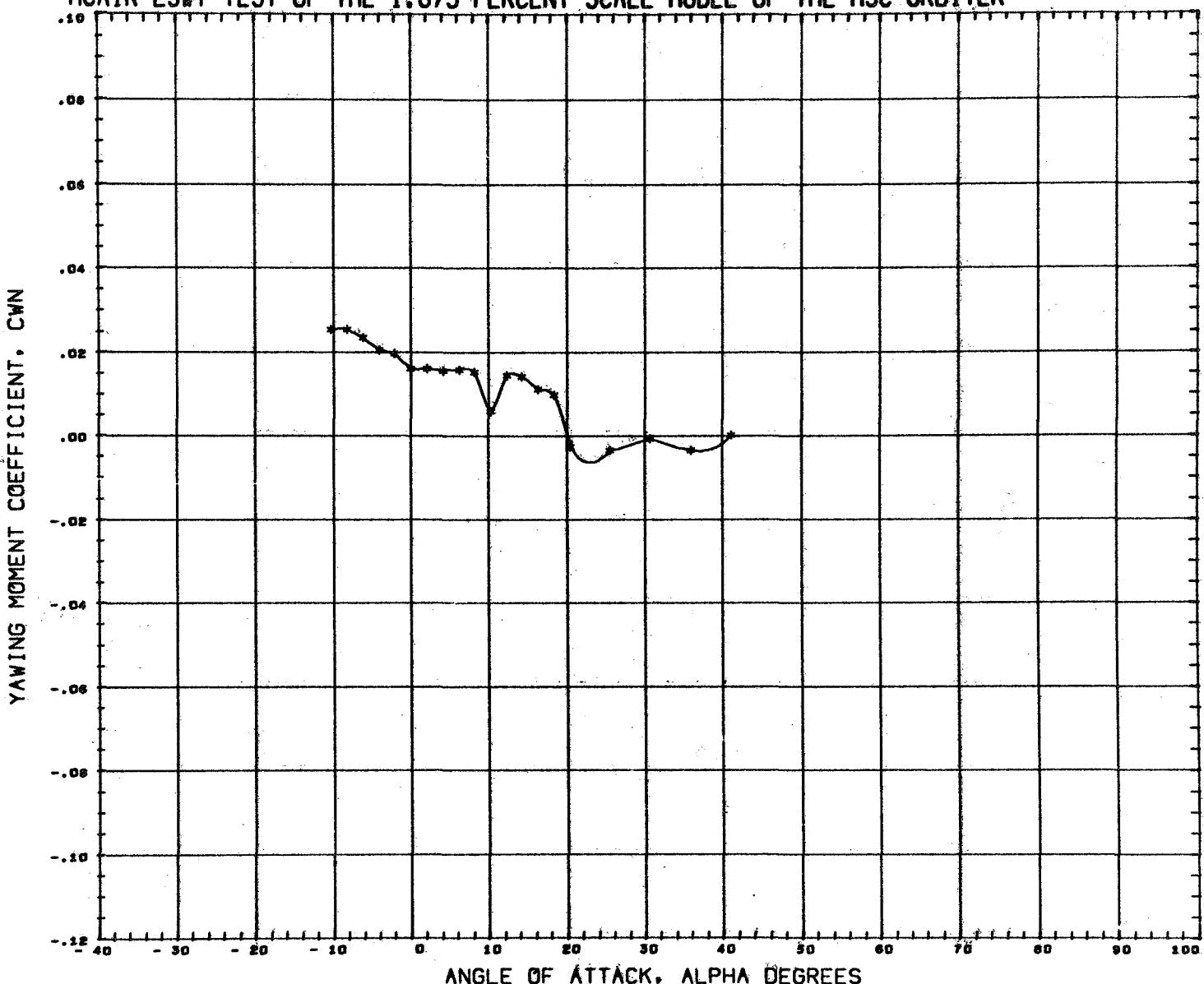


SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 5.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGLO 14.157

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ Sq.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁻⁰¹ FT.
XMRP 1.38370X10⁻⁰¹ IN.
YMRP 0.00000X10⁻⁰⁰ IN.
ZMRP 2.40000X10⁻⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

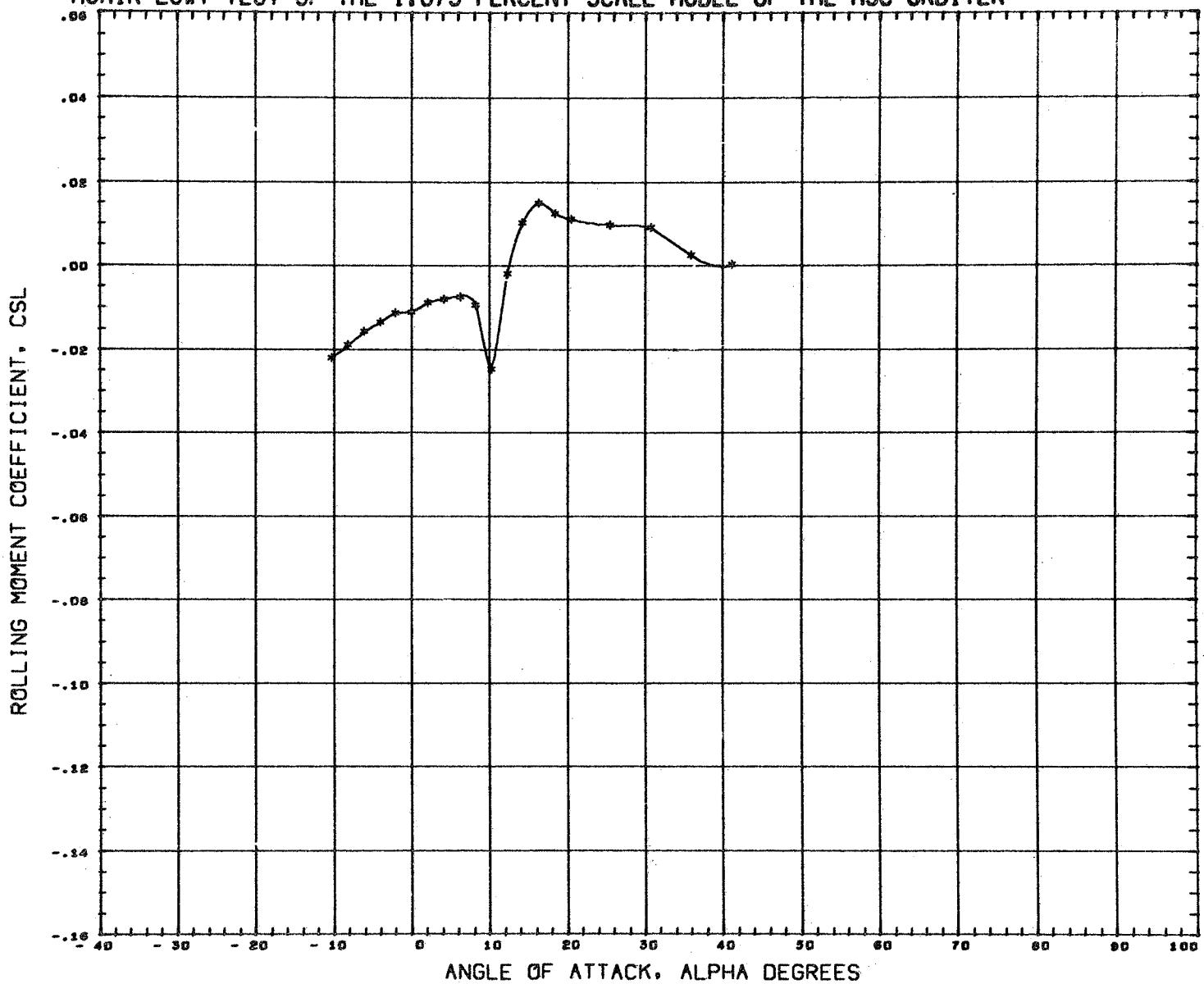


SYMBOL	MACH	PARAMETRIC VALUES			
*	0.250	BETA	5.000	TAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGLO	14.157		

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION		
REFS	3.20800×10^{-01}	sq.ft.
REFL	2.31700×10^{-01}	ft.
REFB	$1.50000 \times 10^{+00}$	ft.
XMRP	$1.38370 \times 10^{+01}$	in.
YMRP	$0.00000 \times 10^{+00}$	in.
ZMRP	$2.40000 \times 10^{+00}$	in.
SCALE	1.87500×10^{-02}	SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



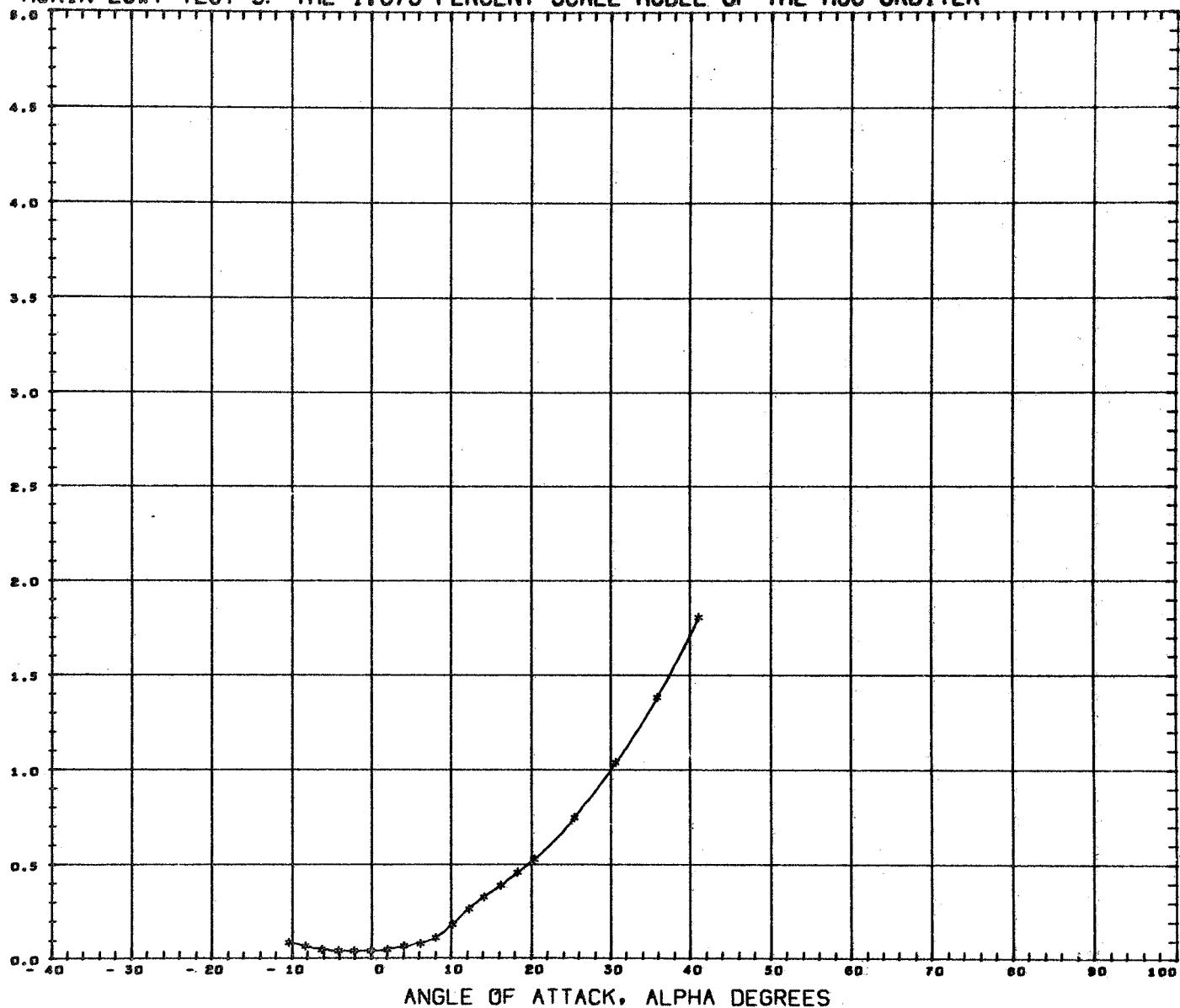
SYMBOL	MACH	PARAMETRIC VALUES			
*	0.250	BETA	5.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGLO	14.157		

REFERENCE INFORMATION		
REFS	3.20800×10^{-01}	SQ.FT.
REFL	2.31700×10^{-01}	FT.
REFB	$1.50000 \times 10^{+00}$	FT.
XMRP	$1.38370 \times 10^{+01}$	IN.
YMRP	$0.00000 \times 10^{+00}$	IN.
ZMRP	$2.40000 \times 10^{+00}$	IN.
SCALE	1.87500×10^{-02}	SCALE

REFERENCE FILE SDY 37100150

TOTAL DRAG COEFFICIENT, CD

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	HACH	PARAMETRIC VALUES			
*	0.250	BETA	5.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGLO	14.157		

REFERENCE INFORMATION	
REFS	3.208000×10^{-01}
REFL	$2.317000 \times 10^{+00}$
REFB	$1.500000 \times 10^{+01}$
XMRP	$1.363700 \times 10^{+01}$
YMRP	$0.000000 \times 10^{+00}$
ZMRP	$2.400000 \times 10^{+00}$
SCALE	1.675000×10^{-02}

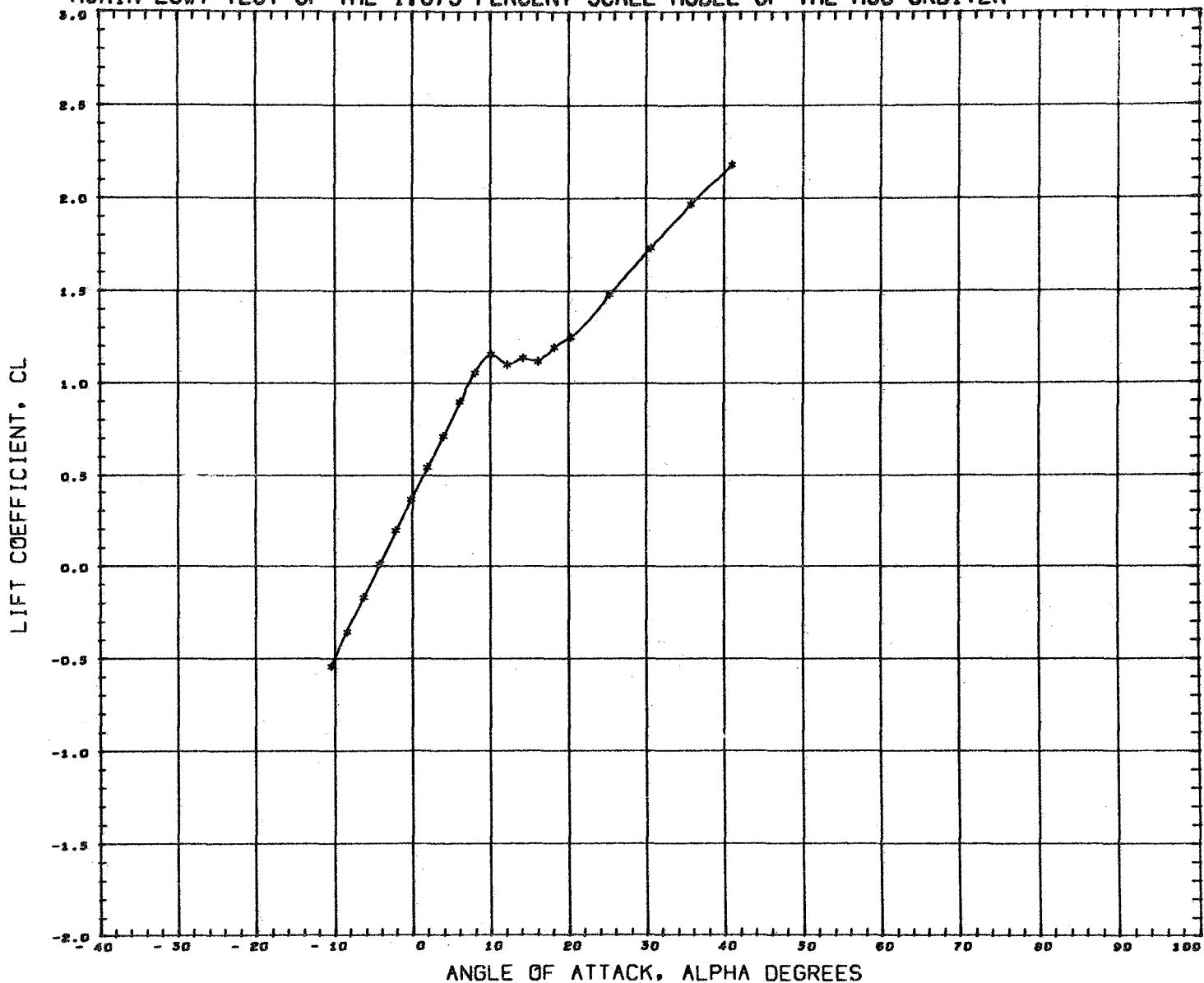
REFERENCE FILE SDY 37100150

LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)

(RC1A03) 28 JUL 70

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

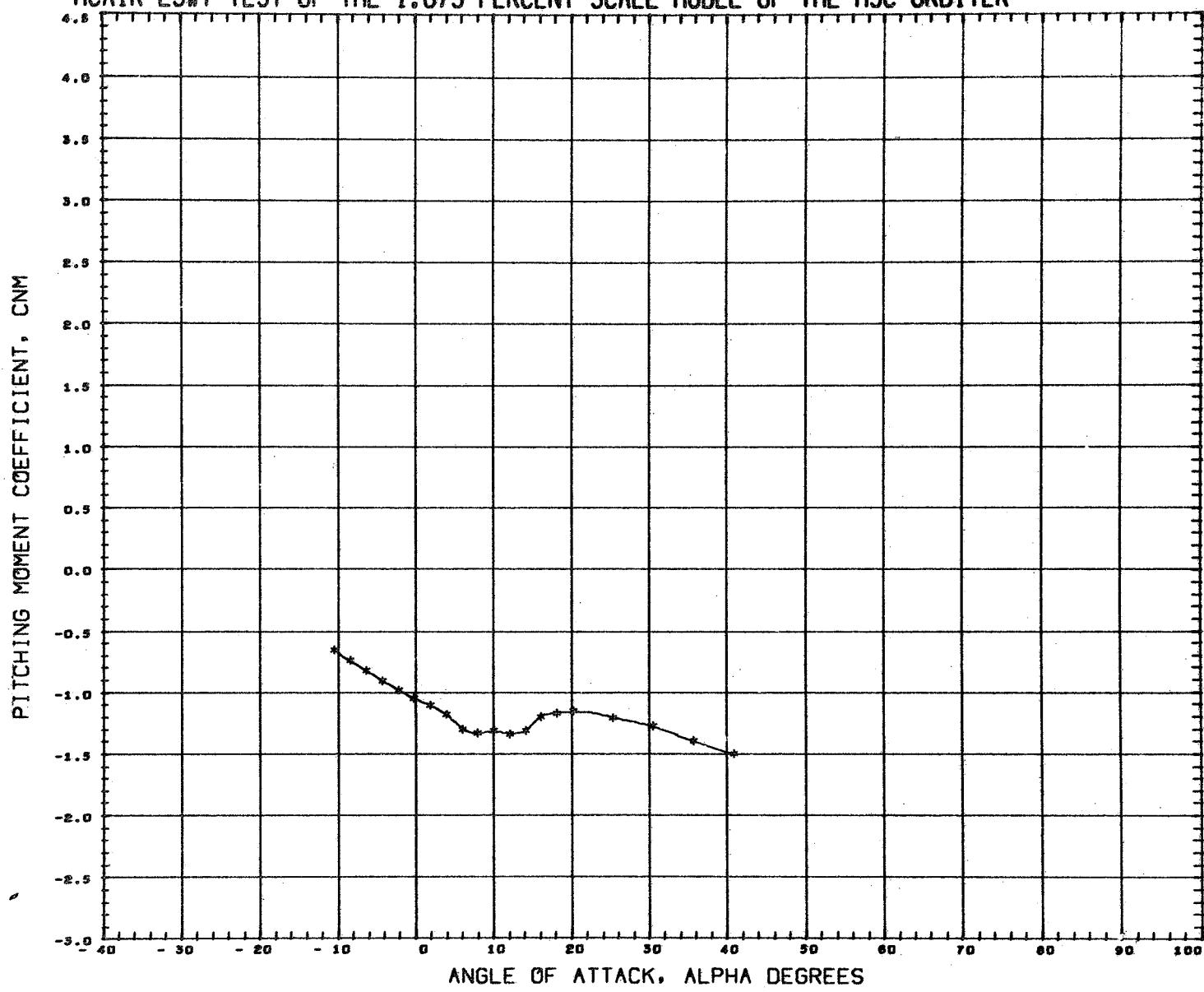


SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 5.000 HTAIL 0.000
ELEVTR 10.000 PHI 0.000
WINGLO 14.157

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



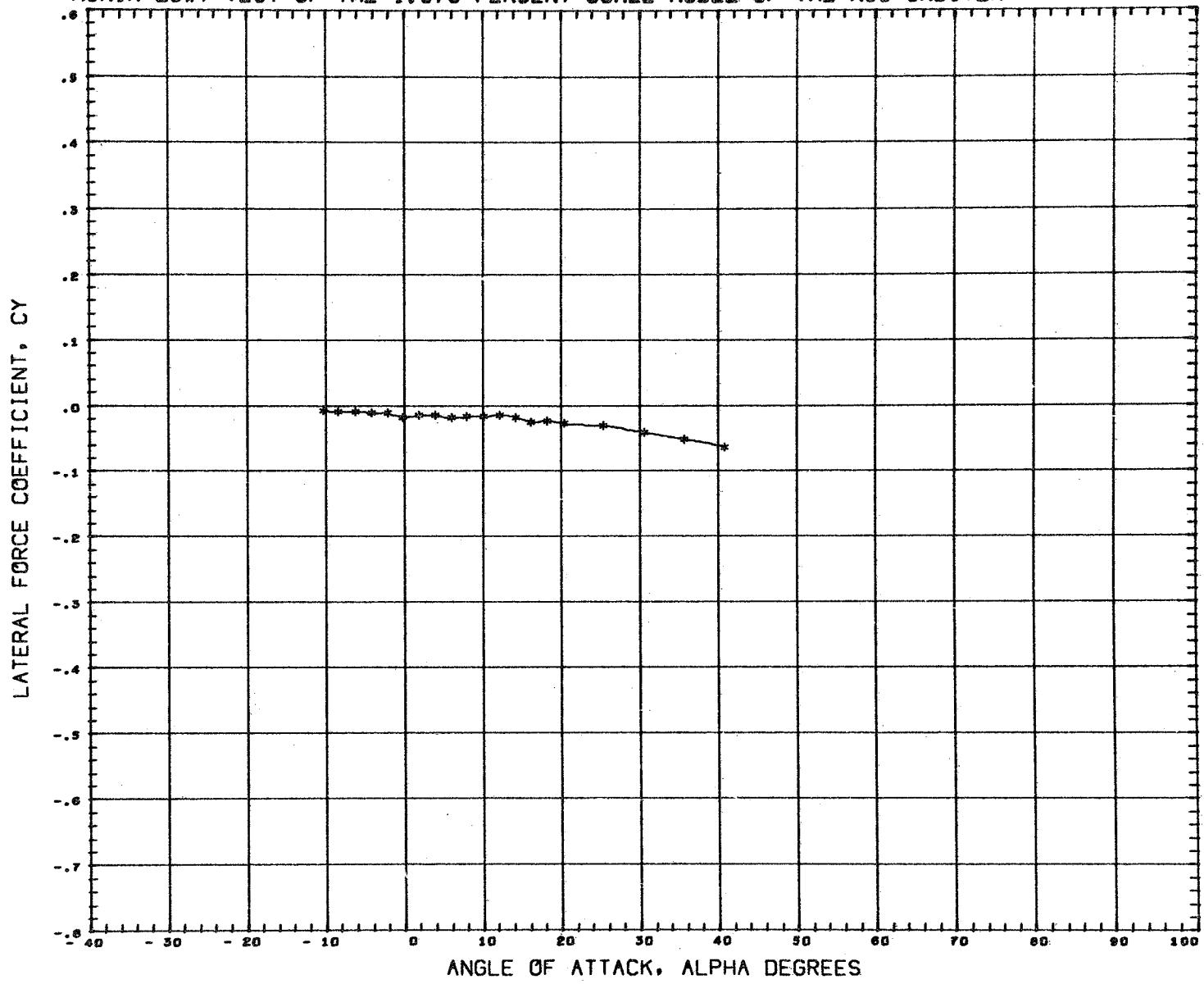
SYMBOL MACH PARAMETRIC VALUES
 * 0.250 BETA 5.000 HTAIL 0.000
 ELEVTR 10.000 PHI 0.000
 WINGLO 14.157

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁺⁰⁰ FT.
 REFB 1.50000X10⁺⁰¹ FT.
 XNRP 1.36370X10⁺⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT) [RC1A04] 28 JUL 70 PAGE 186

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



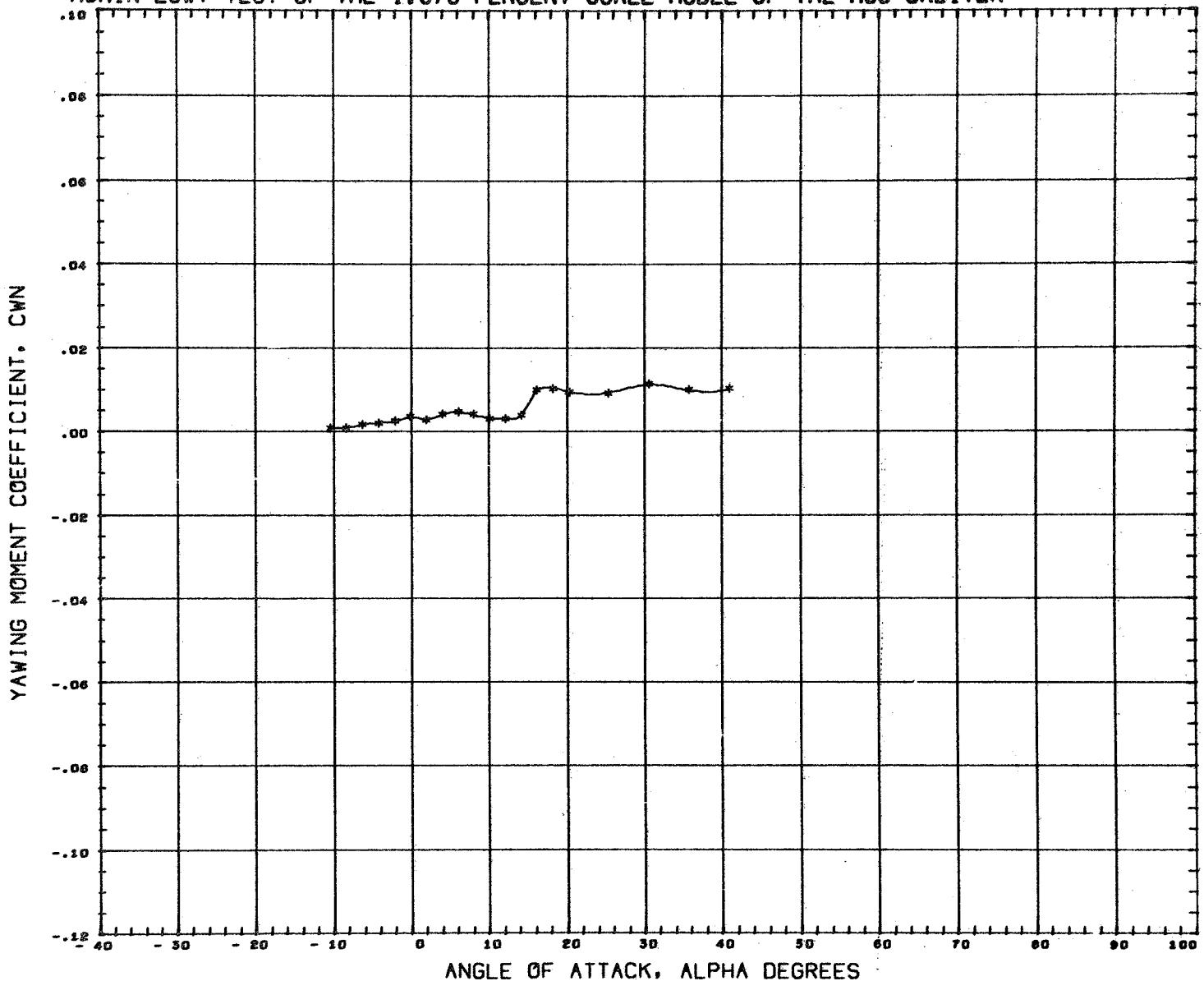
SYMBOL MACH PARAMETRIC VALUES
* 0.250. BETA 5.000 HTAIL 0.000
ELEVTR 10.000 PHI 0.000
WINGLO 14.157

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ Sq.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT) (RC1A04) 28 JUL 70 PAGE 187

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



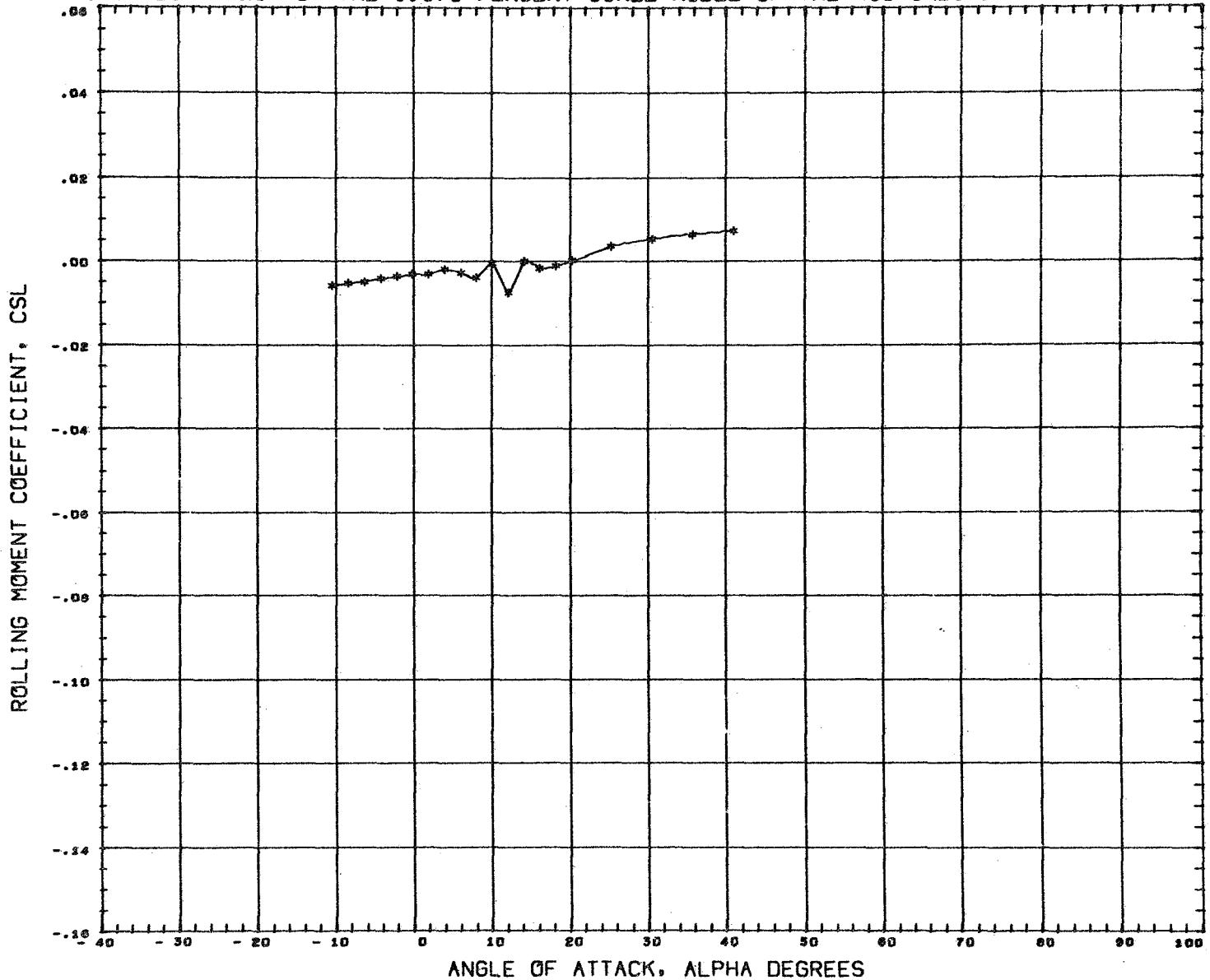
SYMBOL	MACH	PARAMETRIC VALUES			
*	0.250	BETA	5.000	HTAIL	0.000
		ELEVTR	10.000	PHI	0.000
		WINGLO	14.157		

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION	
REFS	3.20000×10^{-01}
REFL	$2.31700 \times 10^{+00}$
REFB	$1.50000 \times 10^{+01}$
XMRP	$1.38370 \times 10^{+01}$
YMRP	$0.00000 \times 10^{+00}$
ZMRP	$2.40000 \times 10^{+00}$
SCALE	8.75000×10^{-02}

LSWT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT) (CRC1A04) 28 JUL 70 PAGE 188

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

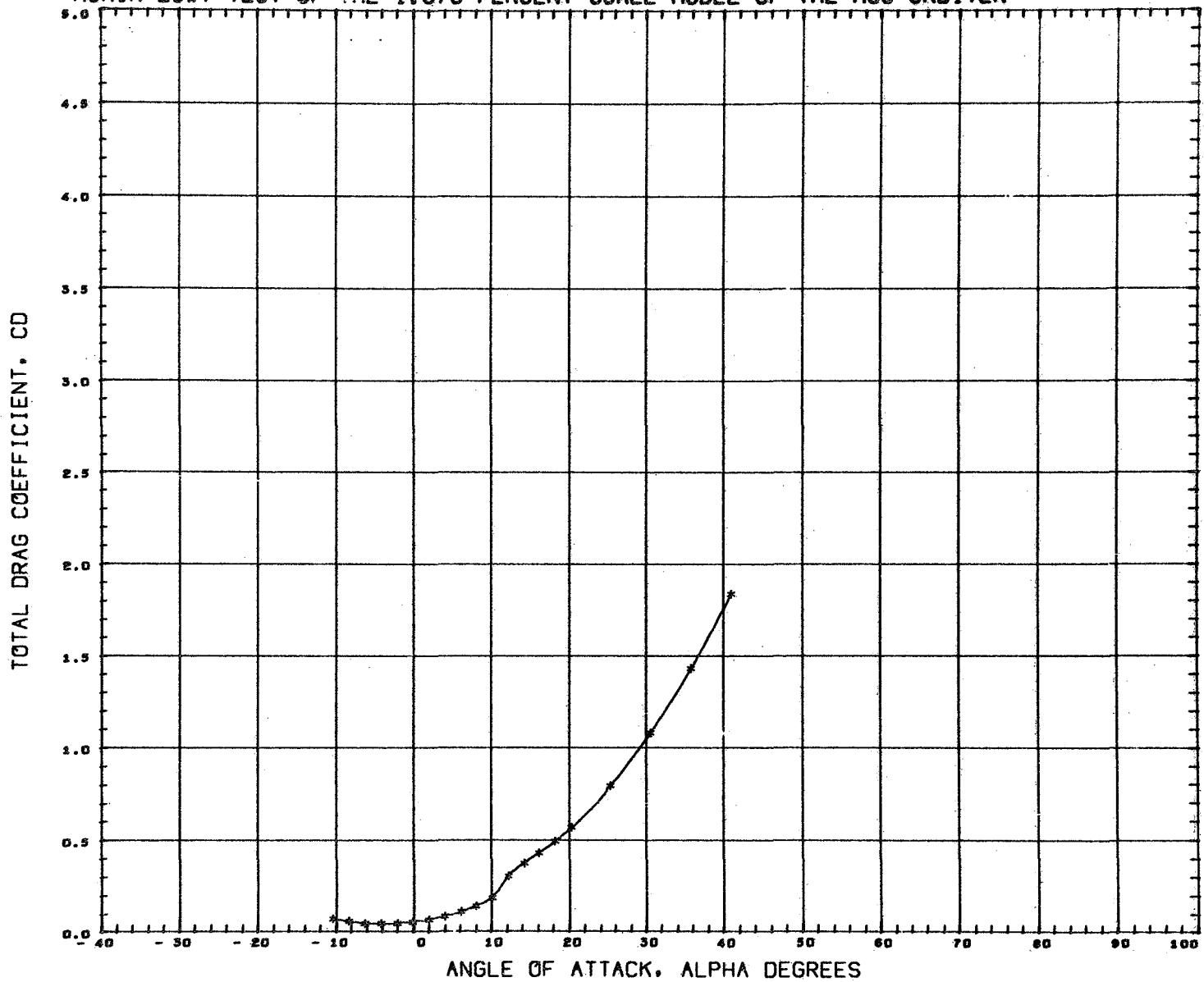


SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 5.000 HTAIL 0.000
ELEVTR 10.000 PHI 0.000
WINGLO 14.157

REFERENCE FILE SDY 57100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES			
*	0.250	BETA	5.000	HTAIL	0.000
		ELEVTR	10.000	PHI	0.000
		WINGLO	14.157		

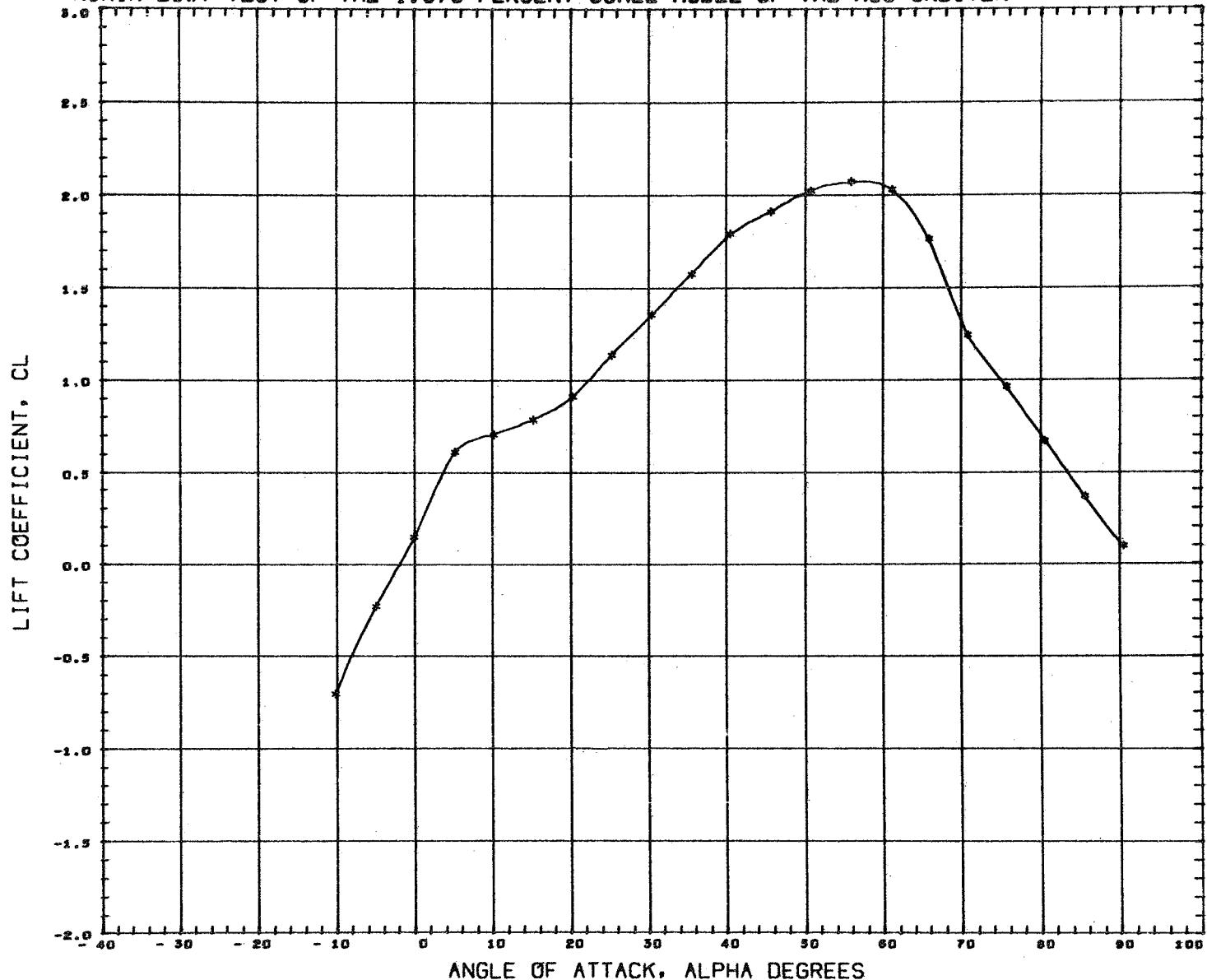
REFERENCE INFORMATION		
REFS	3.20000X10 ⁻⁰¹	SQ.FT.
REFL	2.31700X10 ⁻⁰¹	FT.
REFB	1.50000X10 ⁺⁰⁰	FT.
XMRP	1.38370X10 ⁺⁰¹	IN.
YMRP	0.00000X10 ⁺⁰⁰	IN.
ZMRP	2.40000X10 ⁺⁰⁰	IN.
SCALE	1.67500X10 ⁻⁰²	SCALE

REFERENCE FILE SDY 37100150

L5WT 223 1.875 PC MOD S5 ORB B1H6V3W1 (AFT)

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	5.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	12.211		

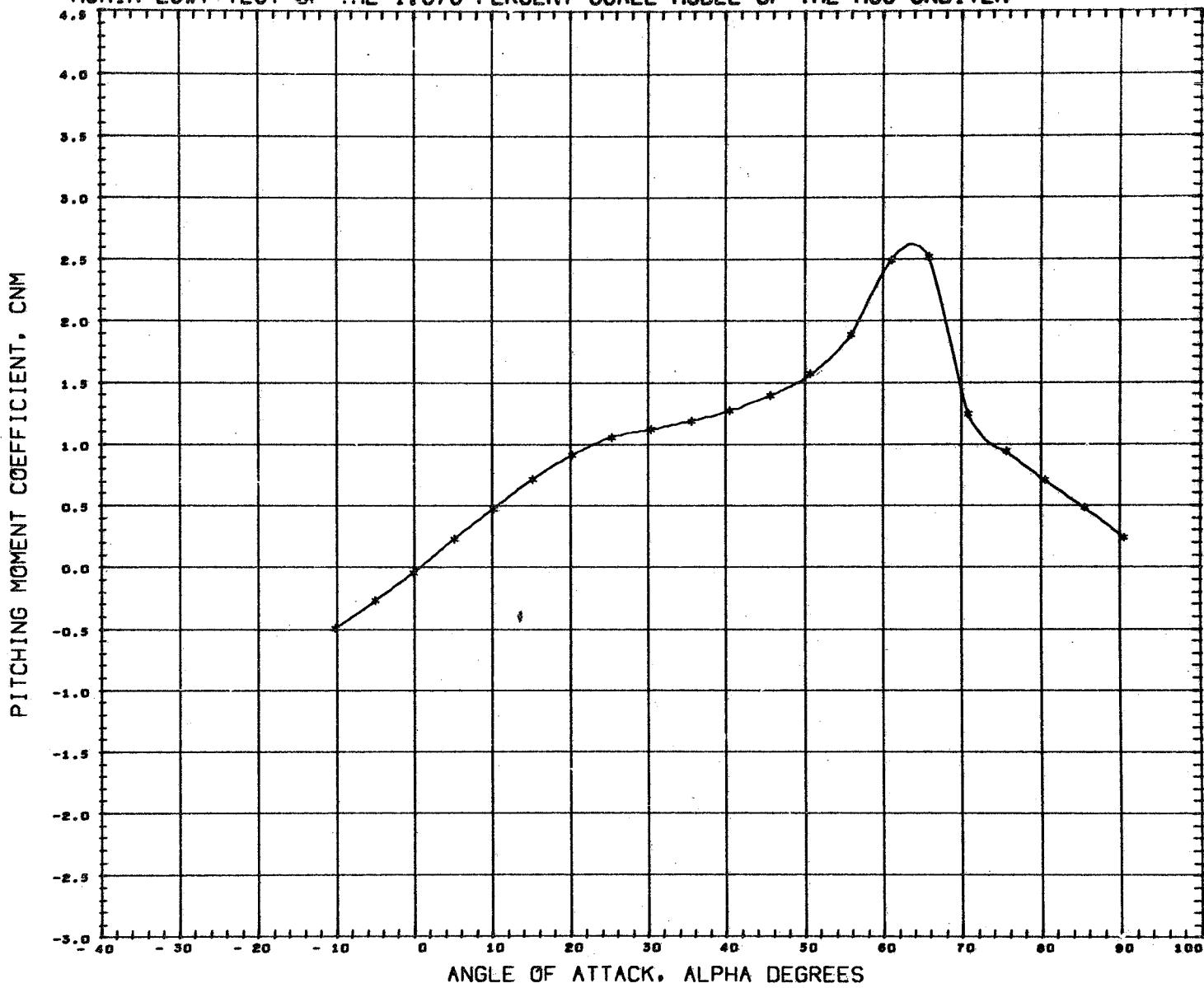
REFERENCE INFORMATION		
REFS	3.20800×10^{-01}	SQ.FT.
REFL	$3.21700 \times 10^{+00}$	FT.
REFB	$1.50000 \times 10^{+01}$	FT.
XNRP	$1.38370 \times 10^{+01}$	IN.
YMRP	$0.00000 \times 10^{+00}$	IN.
ZNRP	$2.40000 \times 10^{+01}$	IN.
SCALE	1.87500×10^{-02}	SCALE

REFERENCE FILE SDY 37100150

L SWT 223 1.875 PC MOD S5 ORB. B1W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	5.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	12.211		

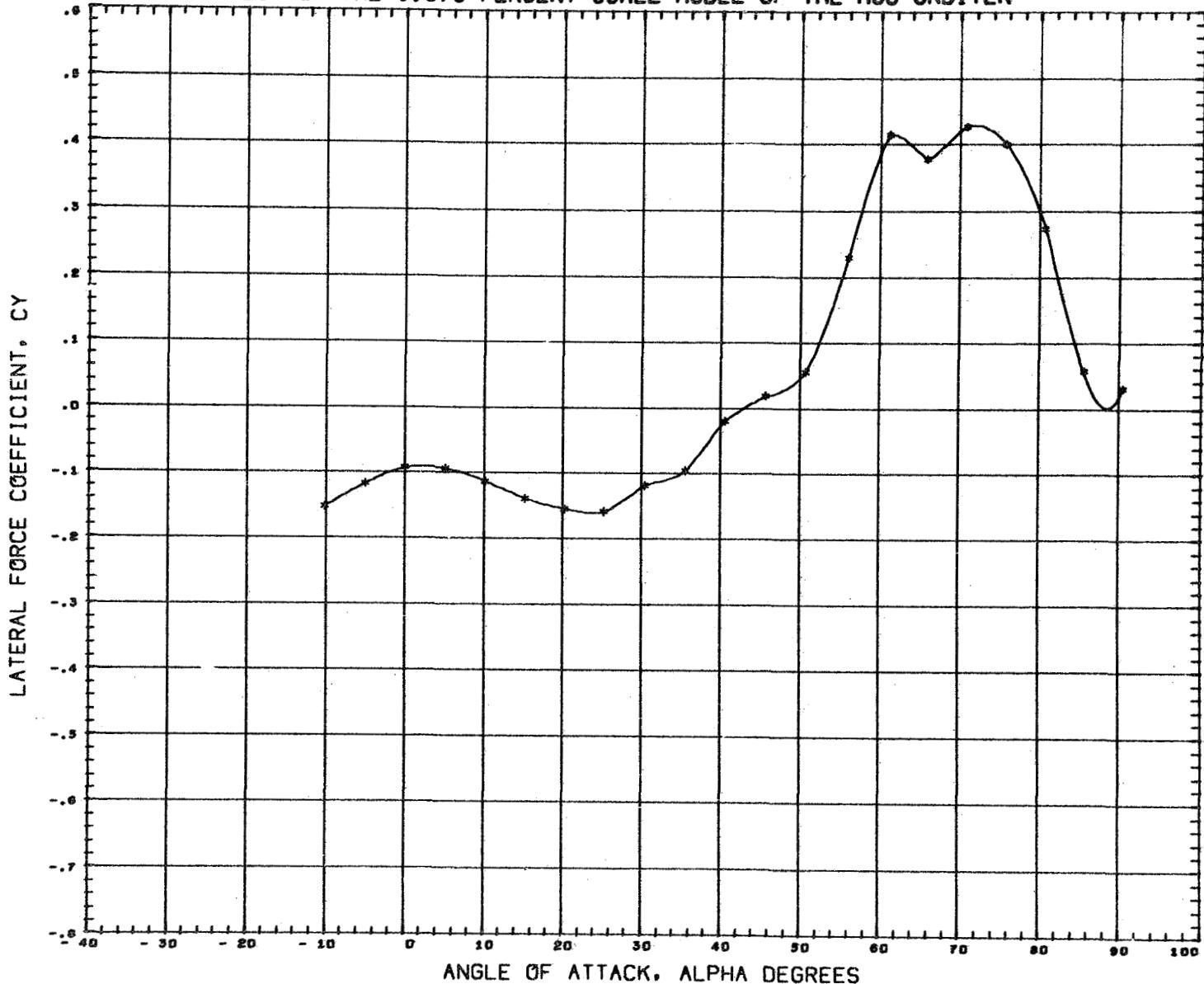
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION		
REFS	3.00000E10	-01
REFL	2.31700E10	+00
REFB	1.50000E10	+01
XHRP	1.36370E10	+00
YHRP	0.00000E10	+00
ZHRP	2.00000E10	+00
SCALE	1.87500E10	-02

L5WT 223 1.875 PC MOD S5 ORB. B1W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



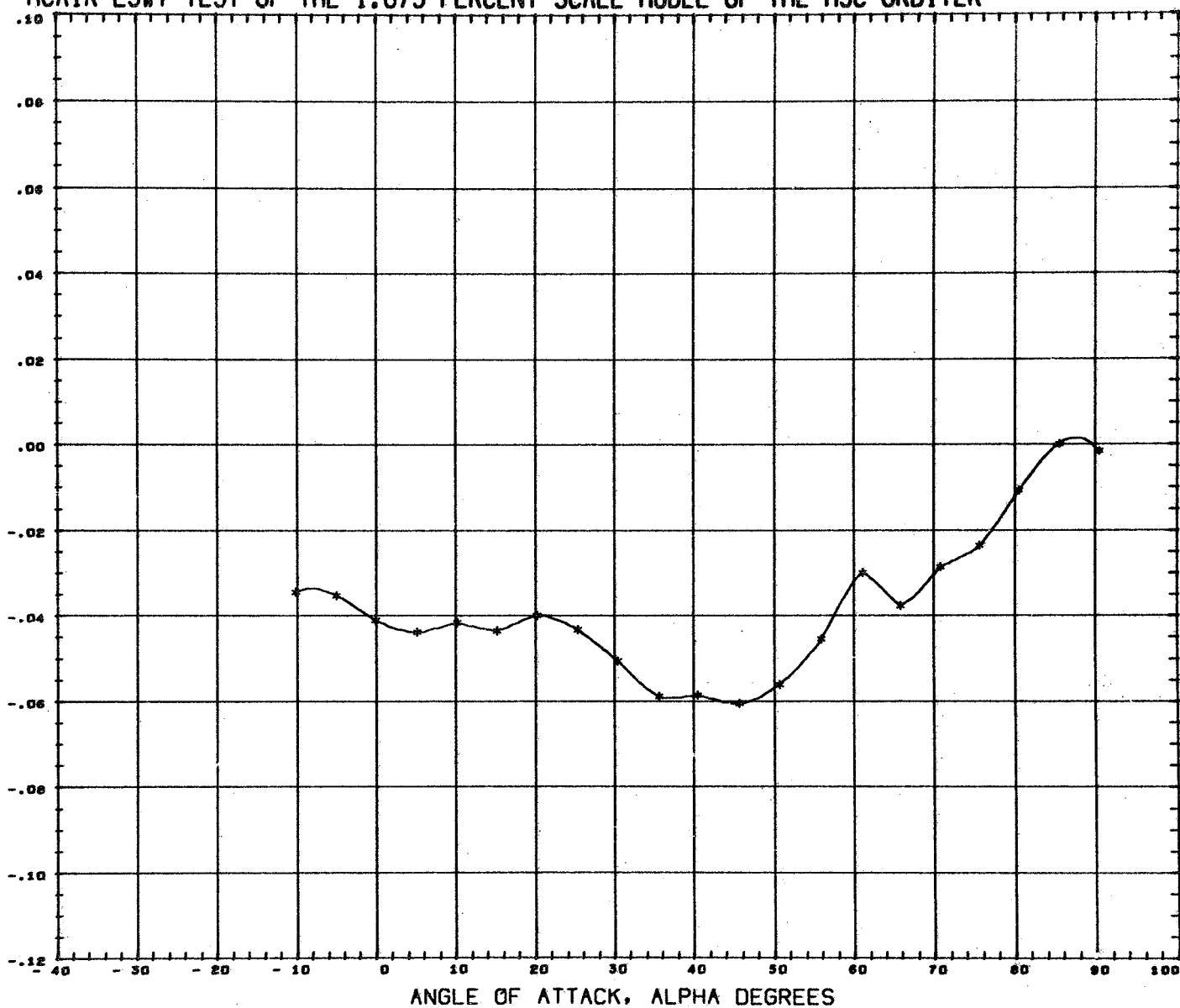
SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	5.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	12.211		

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION		
REFS.	3.20600X10 ⁻⁰¹	SQ.FT.
REFL	2.51700X10 ⁺⁰⁰	FT.
REFB	1.90000X10 ⁺⁰¹	FT.
XMRP	1.38370X10 ⁺⁰⁰	IN.
YMRP	0.00000X10 ⁺⁰⁰	IN.
ZMRP	2.40000X10 ⁺⁰⁰	IN.
SCALE	1.87500X10 ⁻⁰²	SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, C_W



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	5.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	12.211		

REFERENCE FILE SDY 37100150

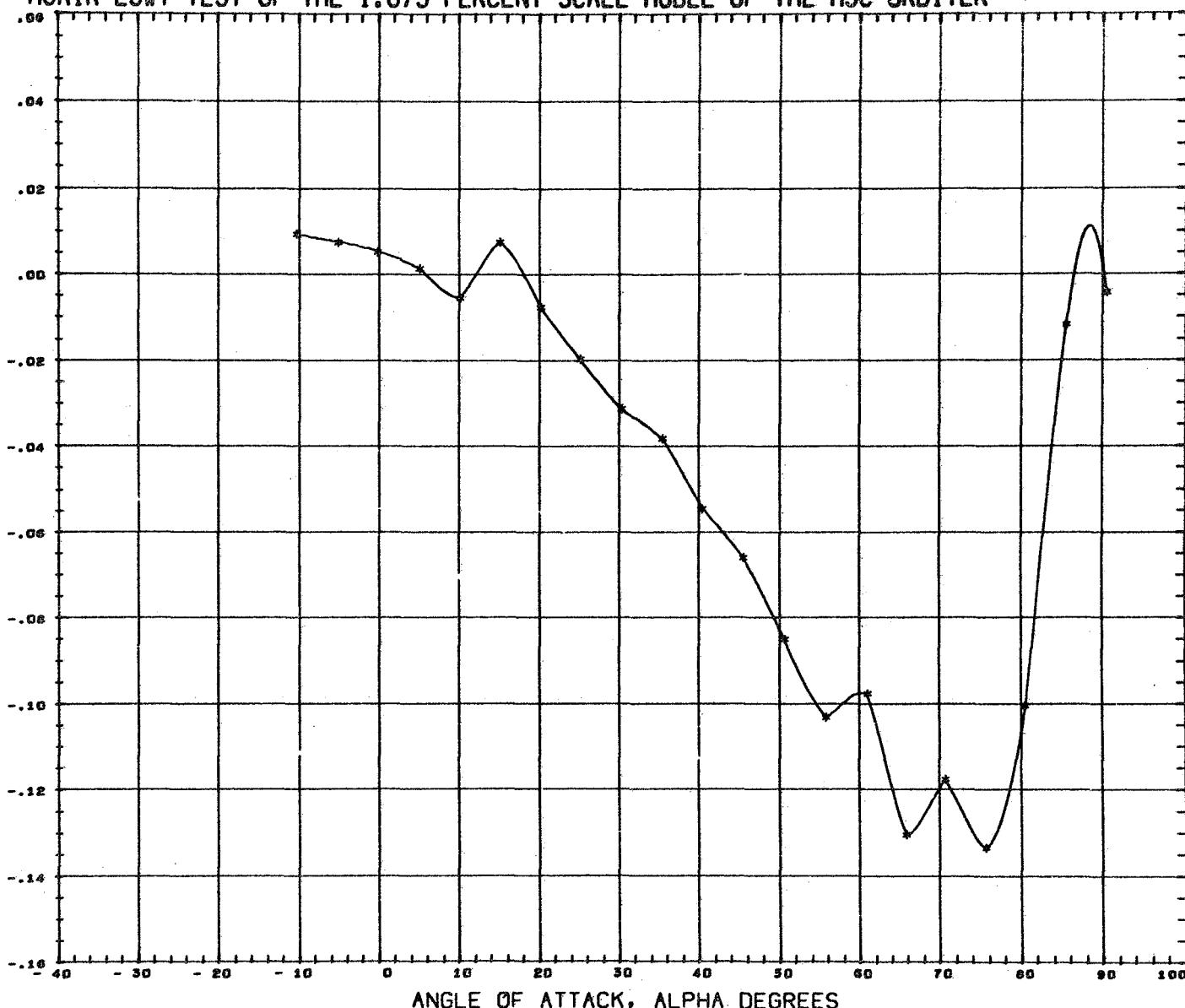
REFERENCE INFORMATION		
REFS	3.20800X10 ⁻⁰¹	SQ.FT.
REFL	2.31700X10 ⁺⁰⁰	FT.
REFB	1.50000X10 ⁺⁰¹	FT.
XMRP	1.38370X10 ⁺⁰⁰	IN.
YMRP	0.00000X10 ⁺⁰⁰	IN.
ZMRP	2.40000X10 ⁺⁰²	IN.
SCALE	1.87500X10 ⁻⁰²	SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1W1

(RC1Q12) 28 JUL 70 PAGE 194

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

ROLLING MOMENT COEFFICIENT, CSL



SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 5.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 12.211

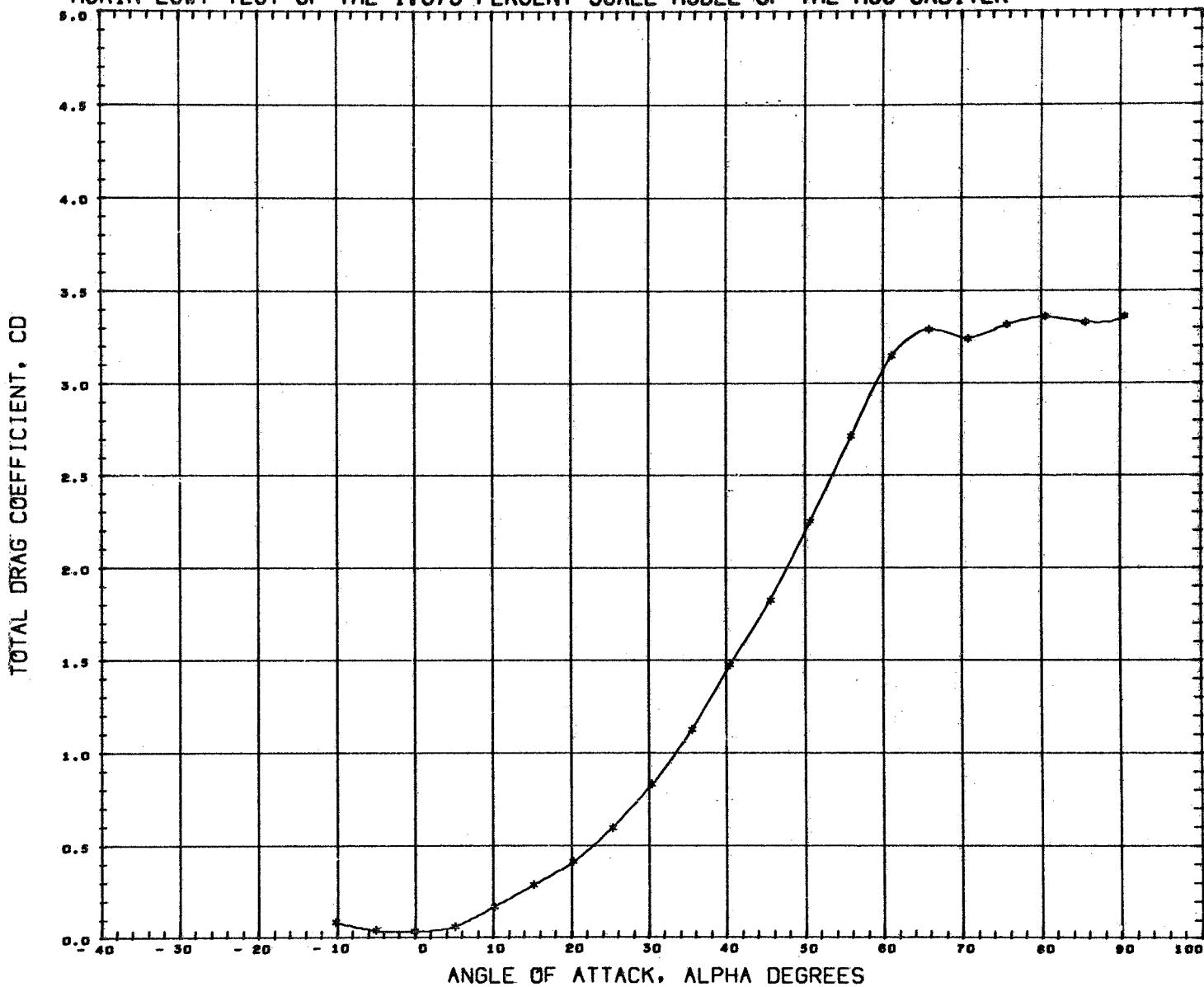
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XMRP 1.36370X10⁺⁰⁰ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1W1

(RC1012) 28 JUL 70 PAGE 195

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	5.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	12.211		

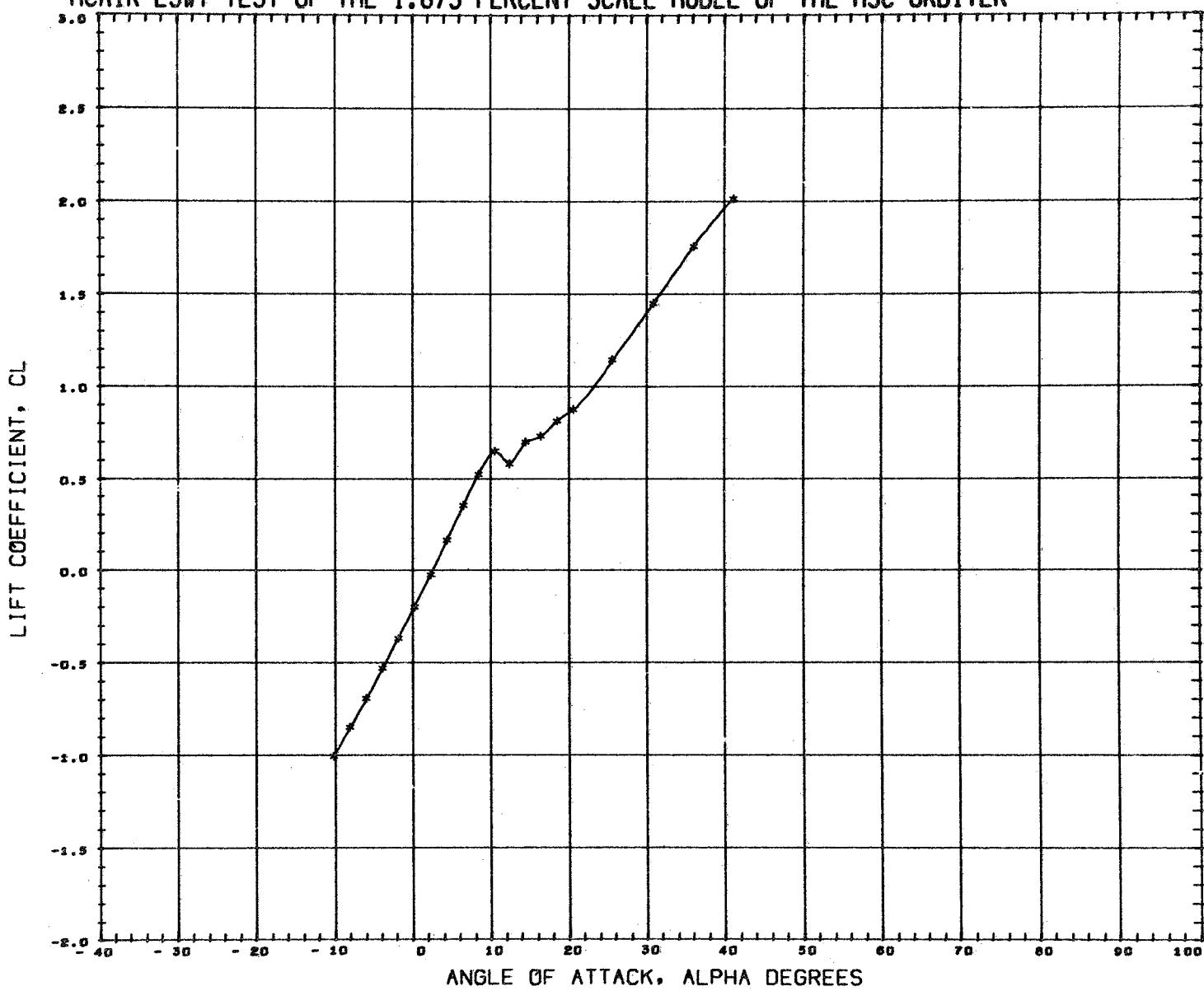
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION	
REFS	3.208000E10 ⁻⁰¹
REFL	2.317000E+00
REFB	1.500000E+01
XMRP	1.363700E+00
YMRP	0.000000E+00
ZMRP	2.400000E+00
SCALE	1.875000E-02

L5WT 223 1.875 PC MOD S5 ORB. B1W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



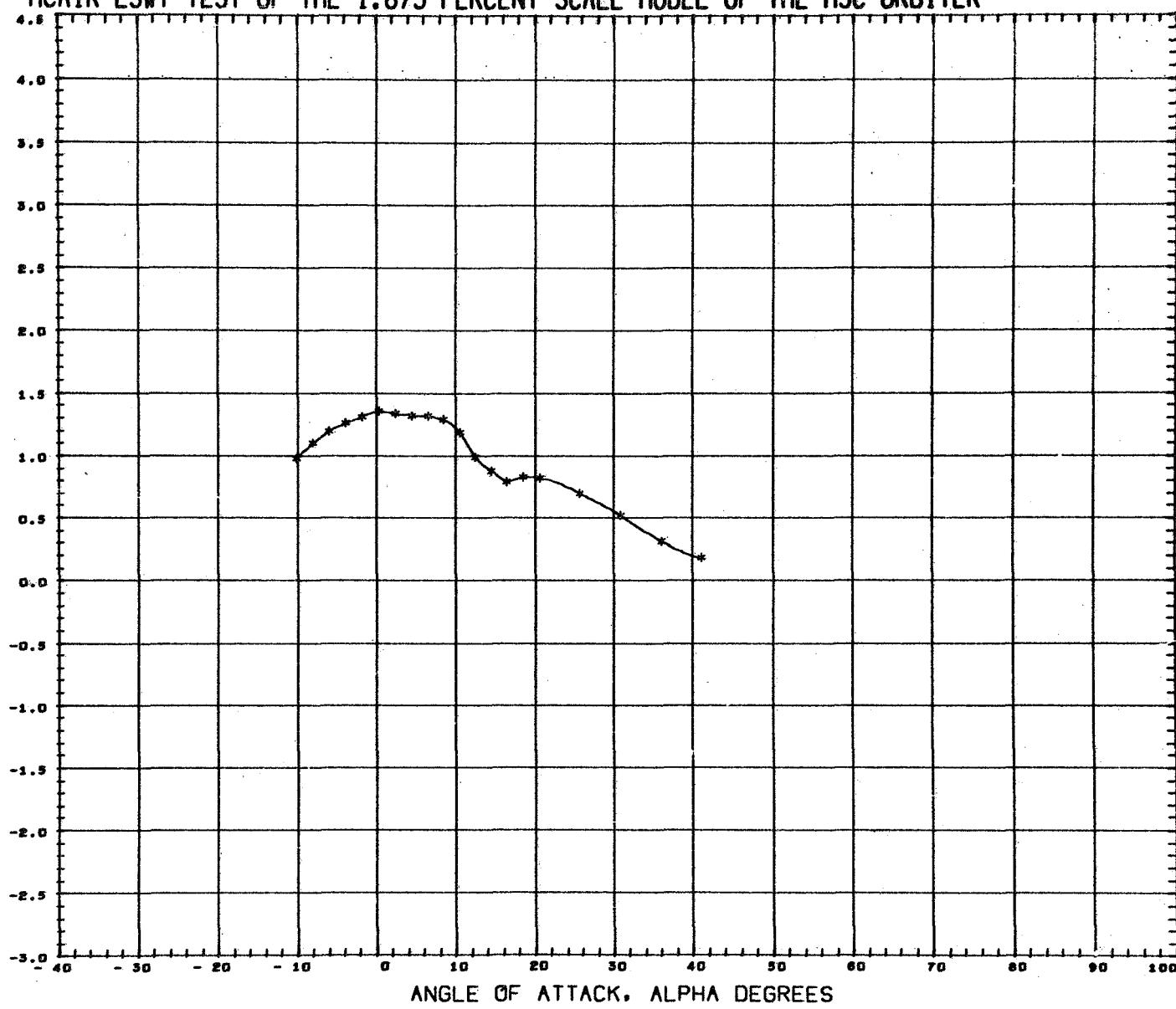
SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 0.000 HTAIL 0.000
ELEVTR -20.000 PHI 0.000
WINGLO 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10-01 SQ.FT.
REFL 2.31700X10+00 FT.
REFB 1.50000X10+01 FT.
XHRP 1.38370X10+01 IN.
YHRP 0.00000X10+00 IN.
ZHRP 2.40000X10-02 IN.
SCALE 1.87500X10-02 SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CNM



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES			
*	0.250	BETA	0.000	HTAIL	0.000
		ELEVTR	-20.000	PHI	0.000
		WINGLO	12.211		

REFERENCE FILE SDY 37100150

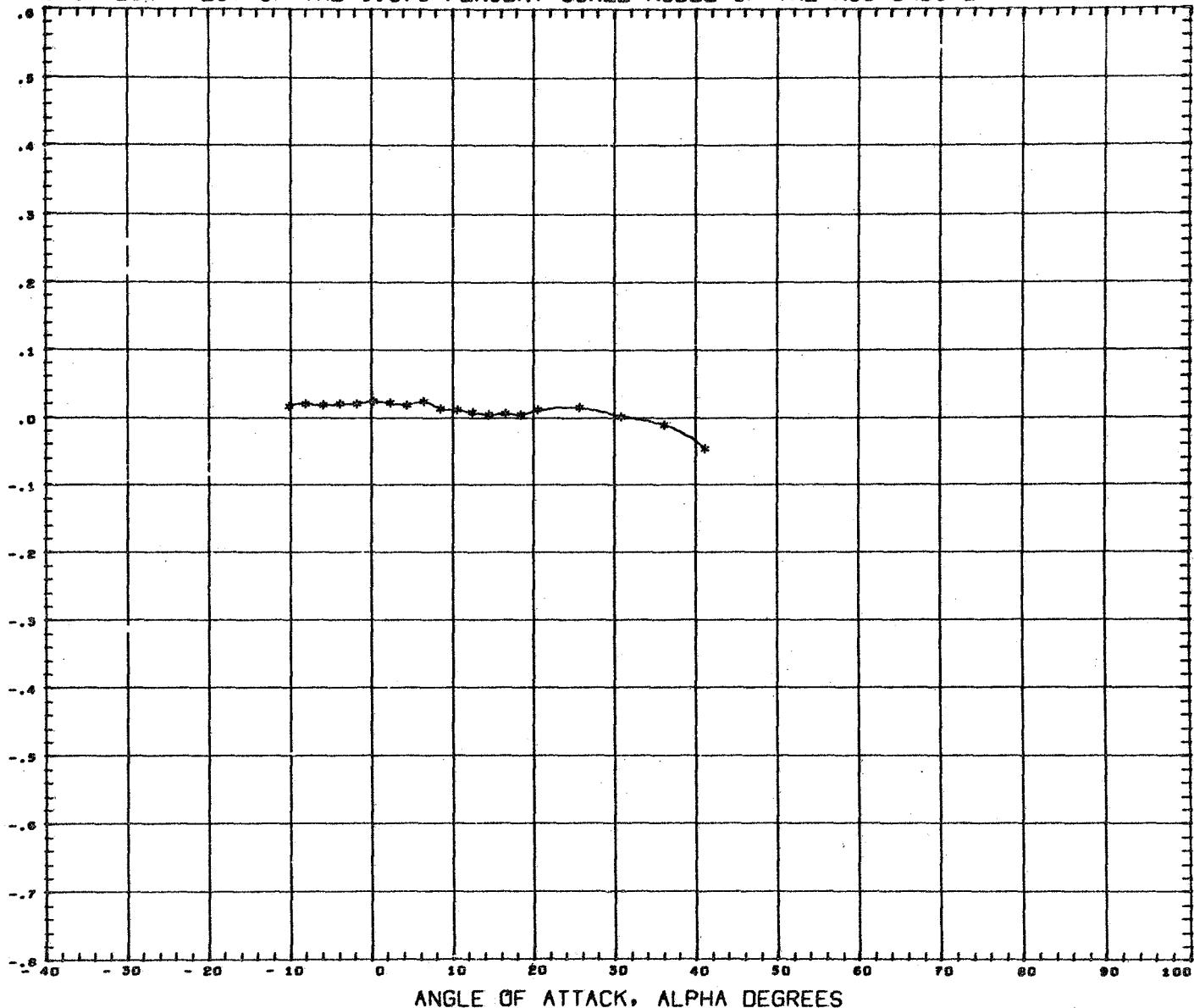
REFERENCE INFORMATION		
REFS	3.20800×10^{-01}	sq.FT.
REFL	$2.31700 \times 10^{+00}$	FT.
REFB	$1.50000 \times 10^{+00}$	FT.
XMRP	$1.38370 \times 10^{+00}$	IN.
YNRP	$0.00000 \times 10^{+00}$	IN.
ZMRP	$2.40000 \times 10^{+00}$	IN.
SCALE	1.87500×10^{-02}	SCALE

LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1

(RC1075) 28 JUL 70 PAGE 198

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

LATERAL FORCE COEFFICIENT, CY



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES			
*	0.250	BETA	0.000	HTAIL	0.000
		ELEVTR	-20.000	PHI	0.000
		WINGLO	12.211		

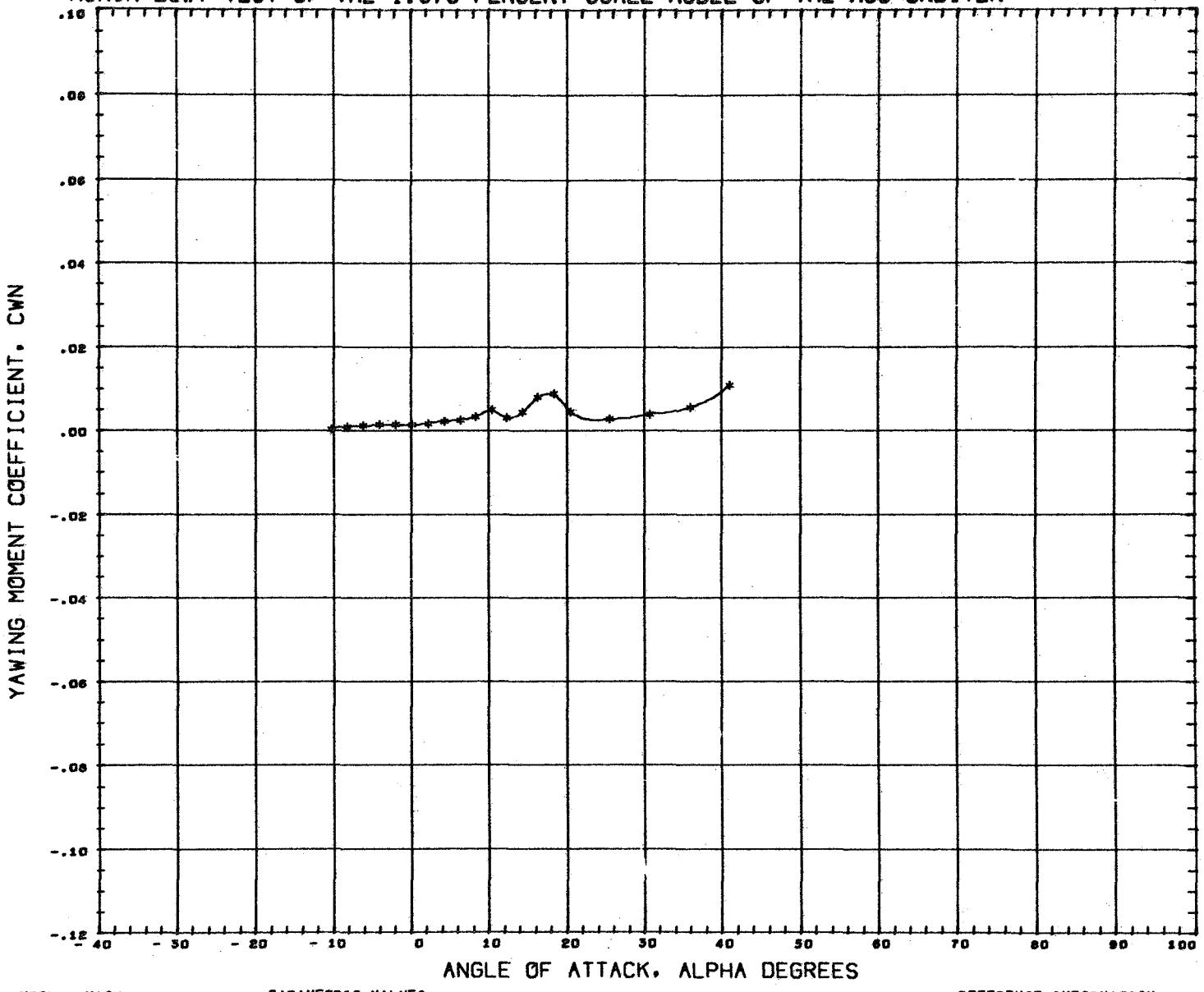
REFERENCE FILE SDY 37100150

LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1

REFERENCE INFORMATION		
REFS	3.20800×10^{-01}	SQ.FT.
REFL	2.31700×10^{-01}	FT.
REFB	$1.50000 \times 10^{+00}$	FT.
XMRP	$1.38370 \times 10^{+00}$	IN.
YMRP	$0.00000 \times 10^{+00}$	IN.
ZMRP	$2.40000 \times 10^{+00}$	IN.
SCALE	1.87500×10^{-02}	SCALE

(RC1075) 28 JUL 70 PAGE 199

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

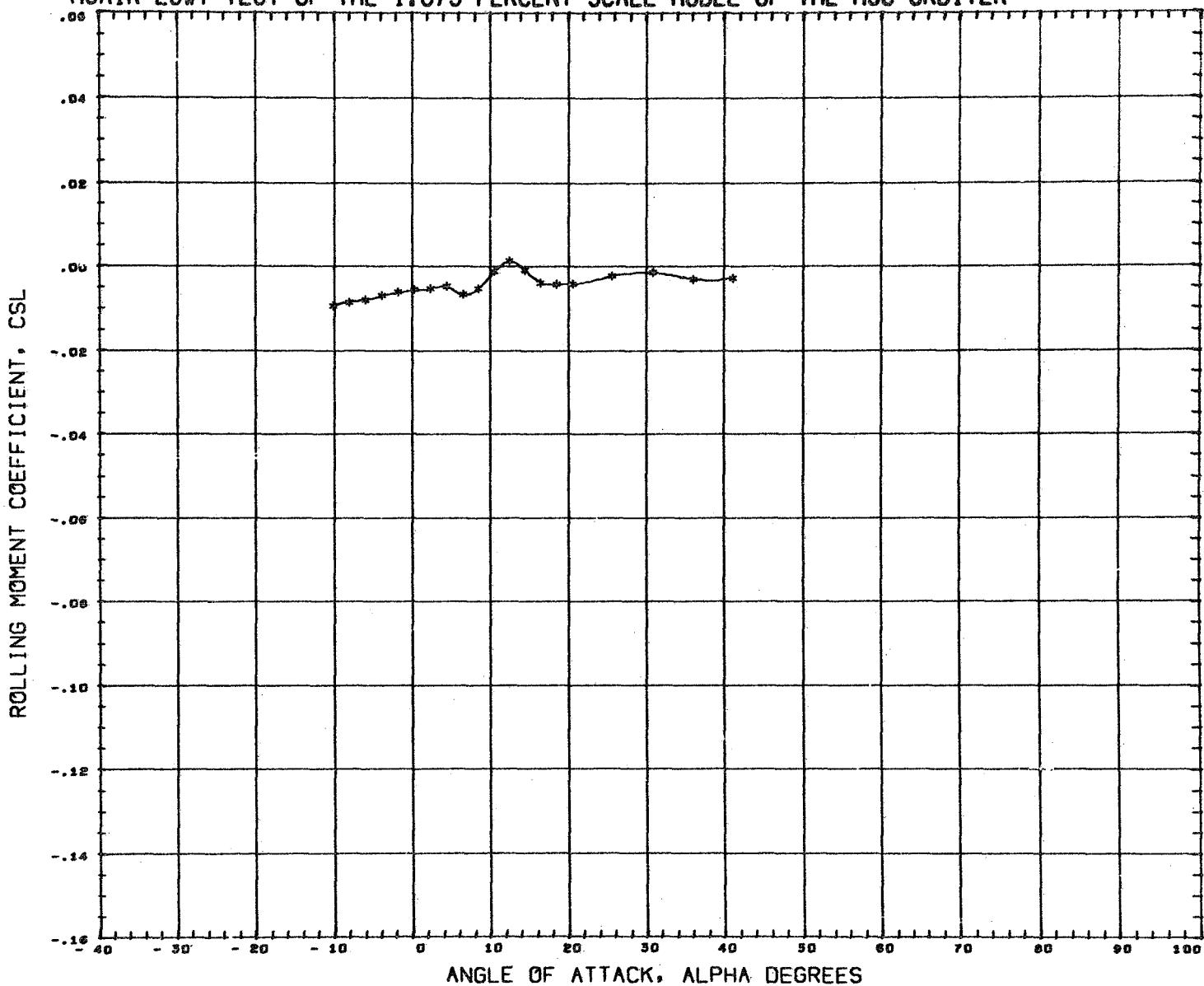


SYMBOL MACH PARAMETRIC VALUES
 * 0.250 BETA 0.000 HTAIL 0.000
 ELEVTR -20.000 PHI 0.000
 WINGLO 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XMRF 1.38370X10⁺⁰¹ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZMRF 2.40000X10⁺⁰⁰ IN.
 SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

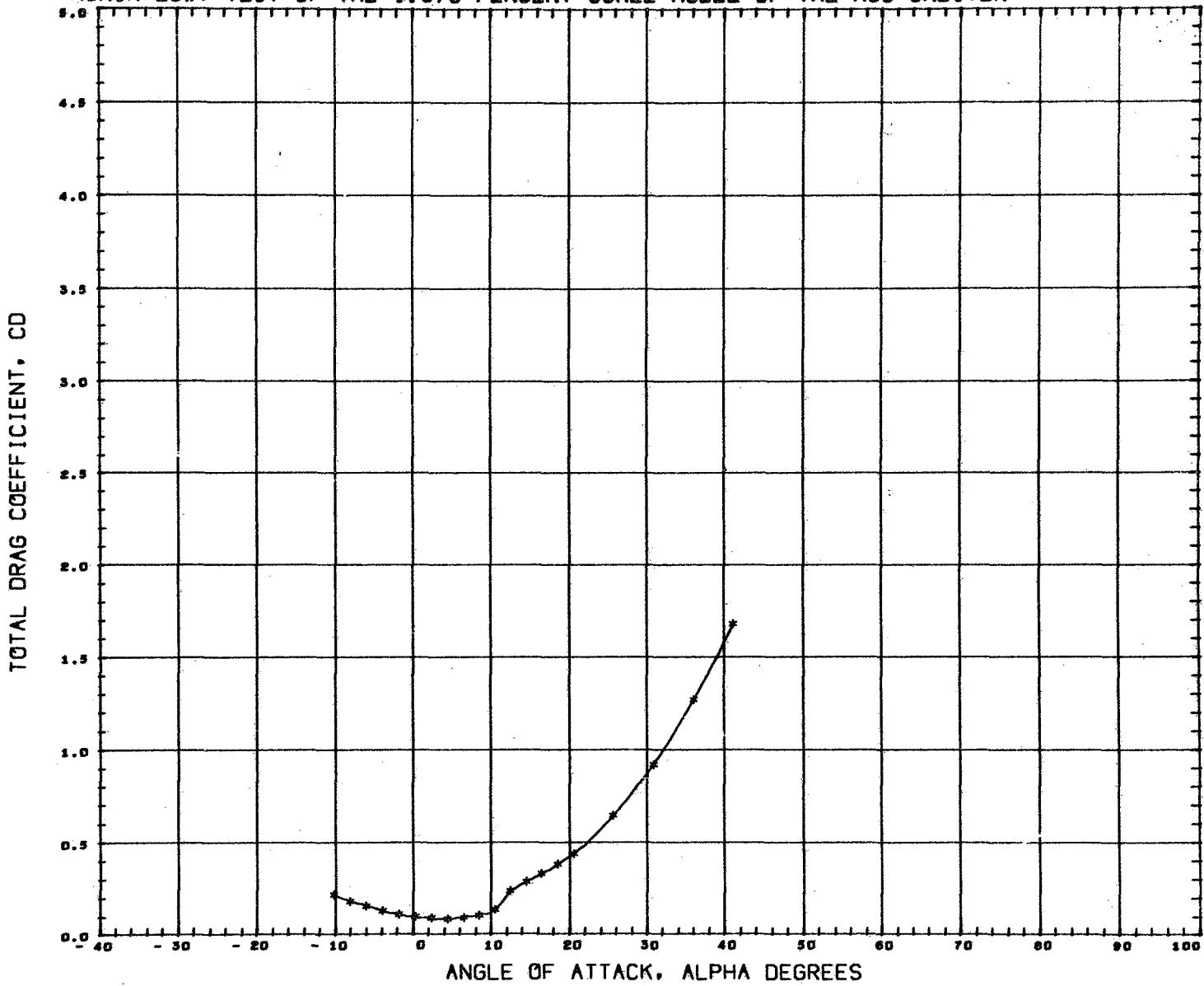


SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 0.000 HTAIL 0.000
ELEVTR - 20.000 PHI 0.000
WINGLO 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20000X10⁻⁰¹ Sq.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁺⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

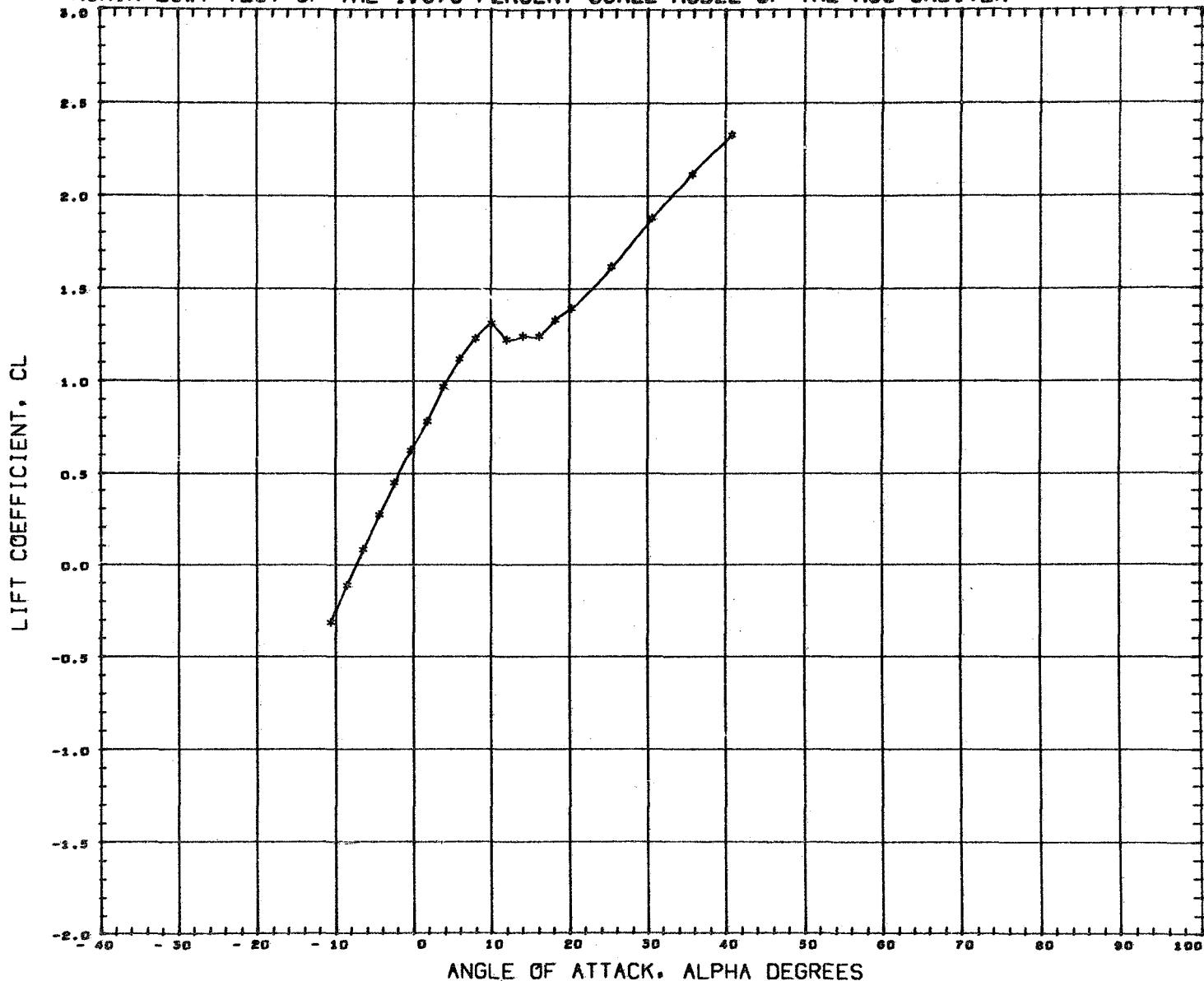


SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 0.000 HTAIL 0.000
ELEVTR -20.000 PHI 0.000
WINGLO 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20000X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



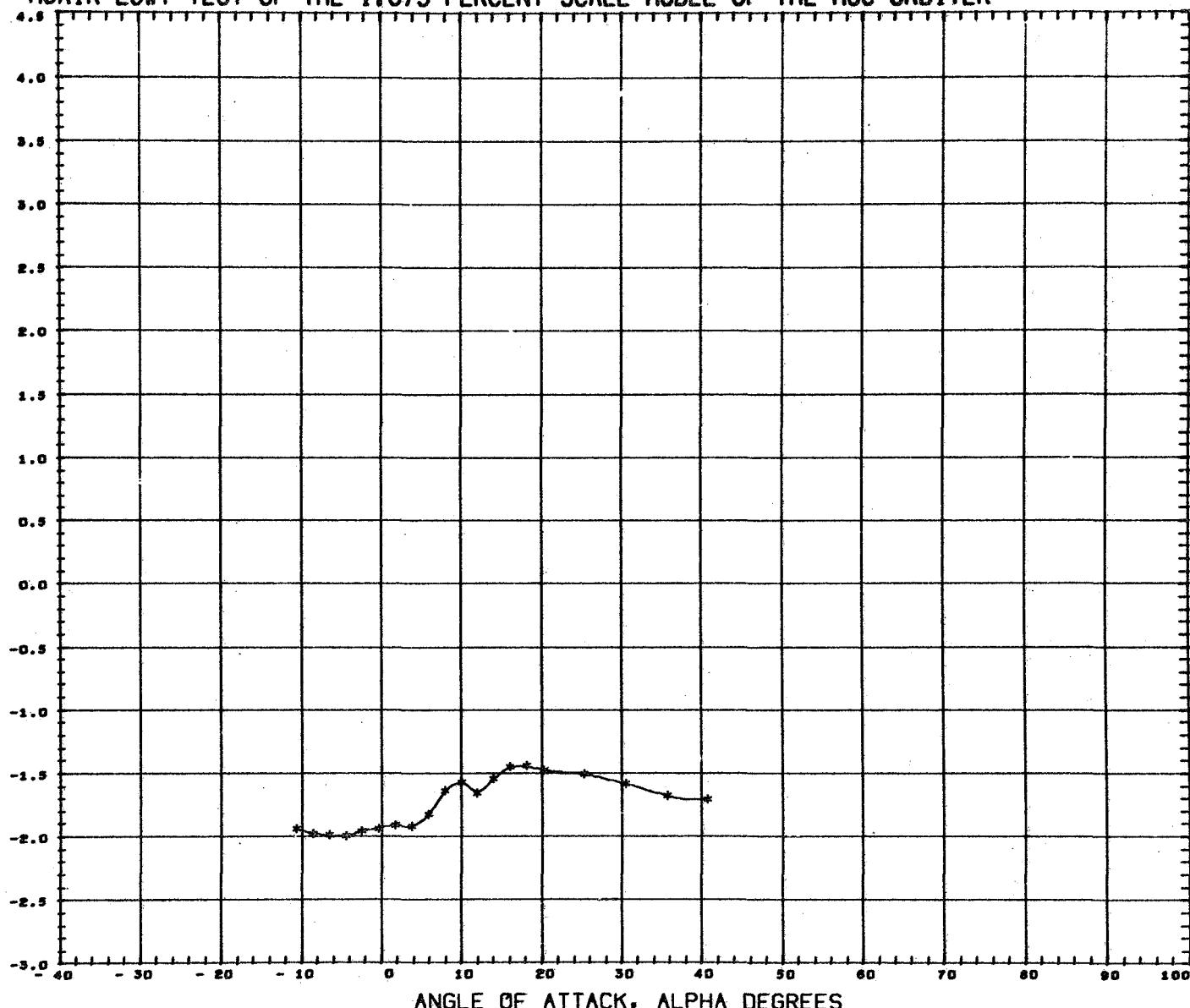
SYMBOL	MACH	PARAMETRIC VALUES			
*	0.250	BETA	0.000	HTAIL	0.000
		ELEVTR	20.000	PHI	0.000
		WINGLO	12.211		

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION	
REFS.	3.20800×10^{-01}
REFL	2.31760×10^{-02}
REFB	$1.50000 \times 10^{+00}$
XMRP	$1.38370 \times 10^{+01}$
YMRP	$0.00000 \times 10^{+00}$
ZMRP	$2.40000 \times 10^{+00}$
SCALE	1.87500×10^{-02}
	SQ.FT.
	FT.
	FT.
	IN.
	IN.
	IN.
	SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CMN



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES			
*	0.250	BETA	0.000	HTAIL	0.000
		ELEVTR	20.000	PHI	0.000
		WINGLO	12.211		

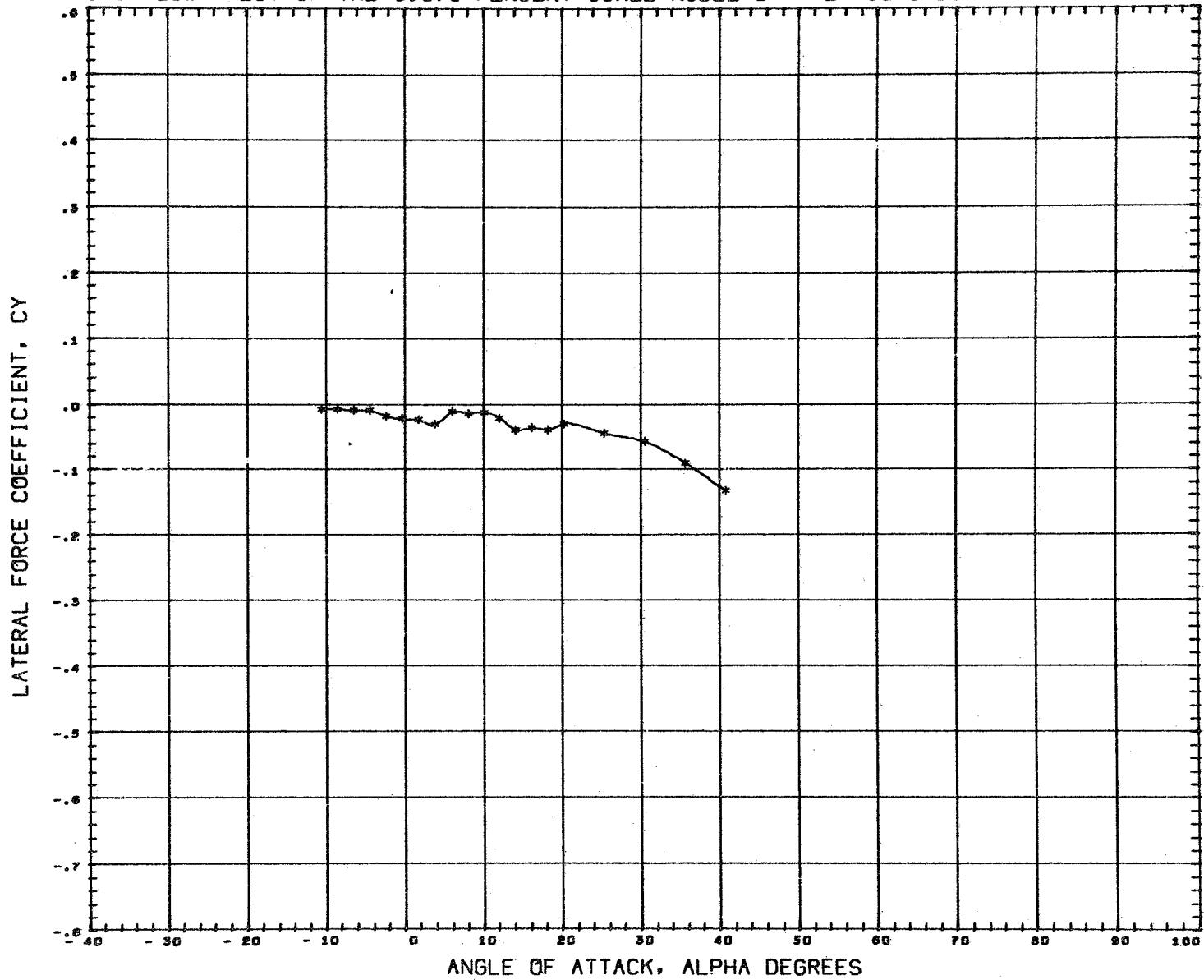
REFERENCE FILE SDY 57100150

REFERENCE INFORMATION	
REFS	3.20800X10 ⁻⁰¹ SQ.FT.
REFL	2.31700X10 ⁺⁰⁰ FT.
REFB	1.50000X10 ⁺⁰¹ FT.
XHRP	1.38370X10 ⁺⁰¹ IN.
YNRP	0.00000X10 ⁺⁰⁰ IN.
ZNRP	2.40000X10 ⁻⁰² IN.
SCALE	1.87500X10 ⁻⁰² SCALE

LSWT 223 1.875 PC MOD SS ORB B1H12V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 0.000 HTAIL 0.000
ELEVTR 20.000 PHI 0.000
WINGLO 12.211

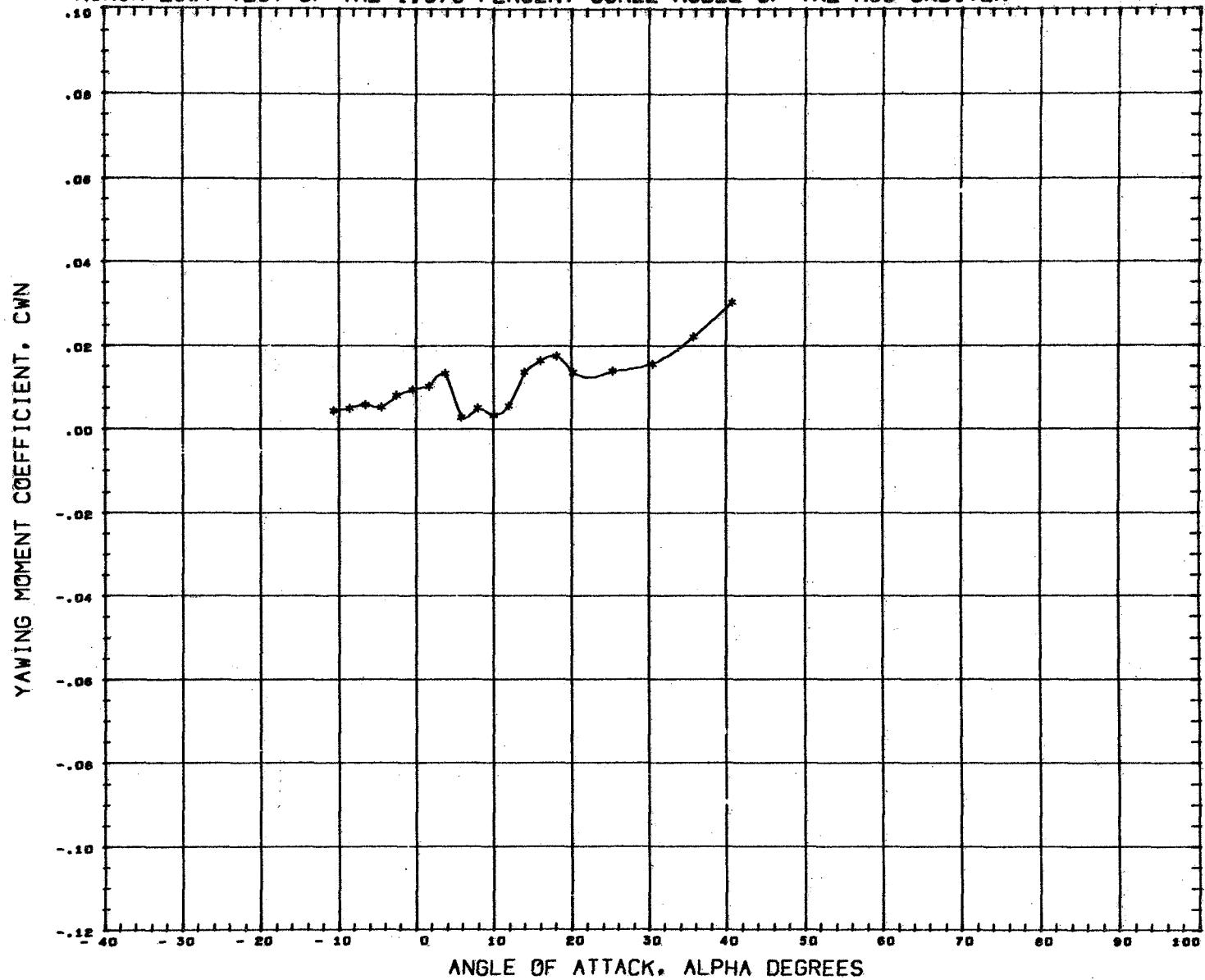
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ Sq.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XHPP 1.38370X10⁺⁰¹ IN.
YHPP 0.00000X10⁺⁰⁰ IN.
ZHPP 2.40000X10⁺⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1

(RCI076) 28 JUL 70 PAGE 205

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



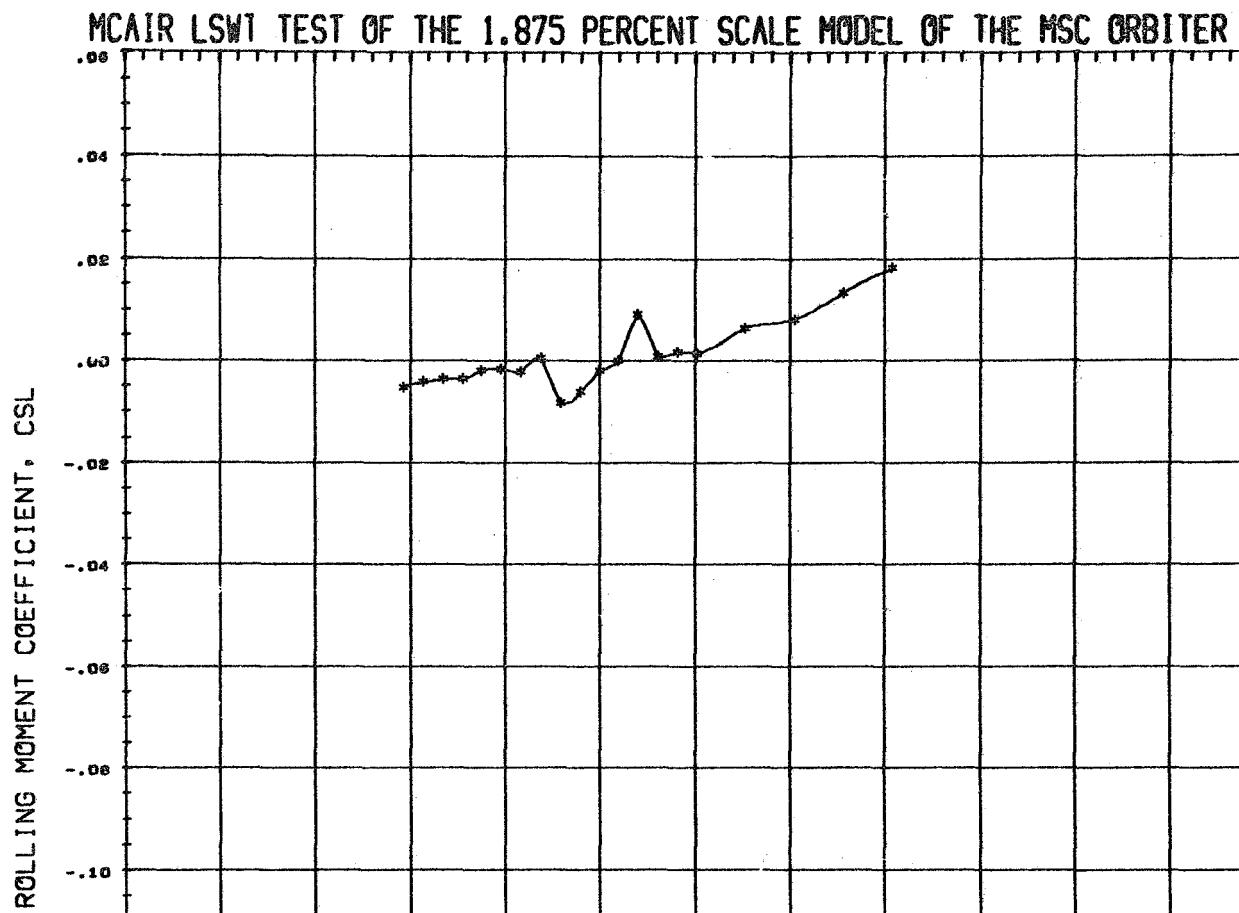
SYMBOL MACH PARAMETRIC VALUES
 * 0.250 BETA 0.000 HTAIL 0.000
 ELEVTR 20.000 PHI 0.000
 WINGLO 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ IN.
 REFL 2.31700X10⁻⁰¹ FT.
 REF_B 1.50000X10⁺⁰⁰ FT.
 XMRP 1.36370X10⁺⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB B1H12V3W1

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SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 0.000 HTAIL 0.000
ELEVTR 20.000 PHI 0.000
WINGLO 12.211

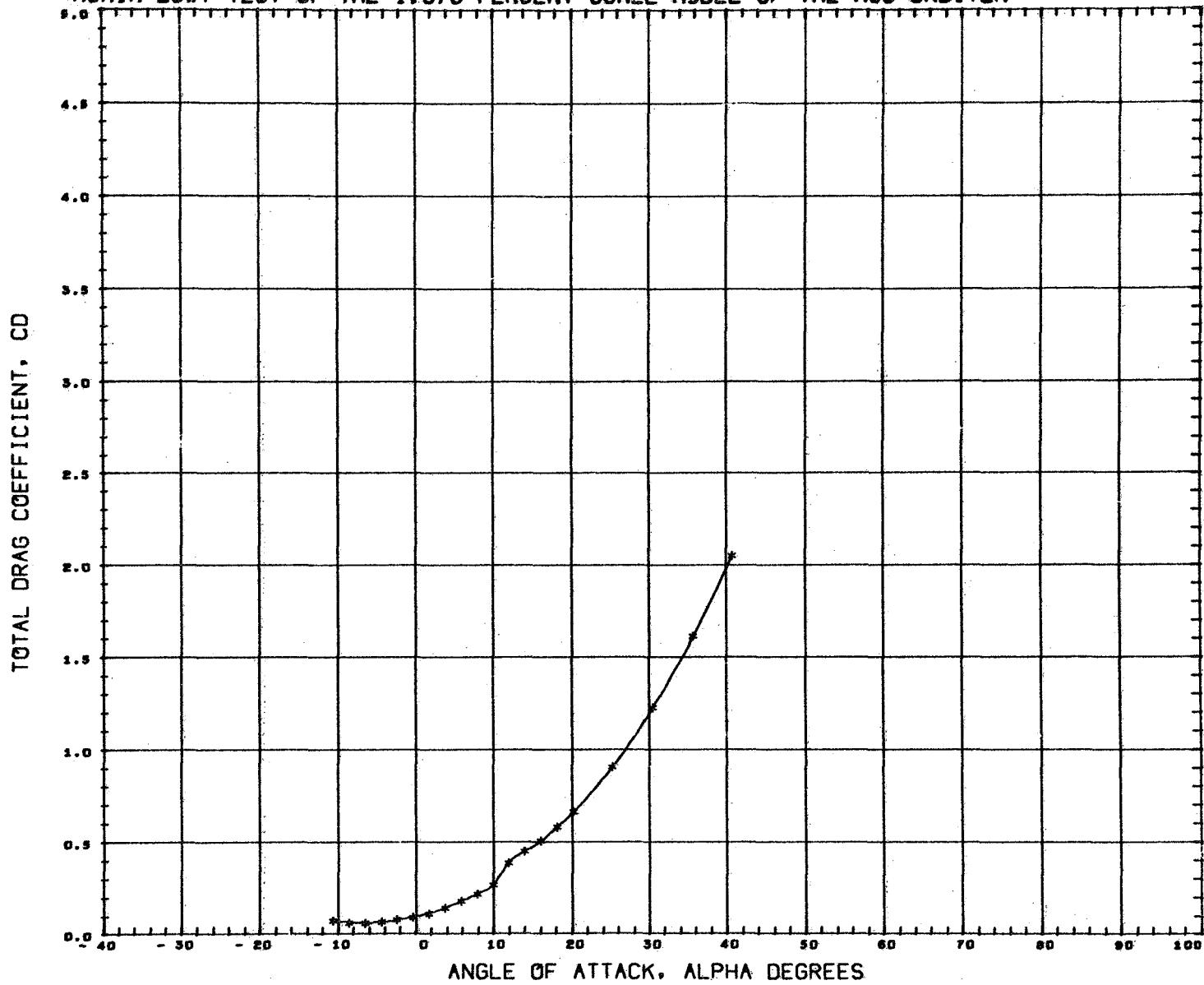
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ Sq.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB BIH12V3W1

(RC1076) 28 JUL 70 PAGE 207

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

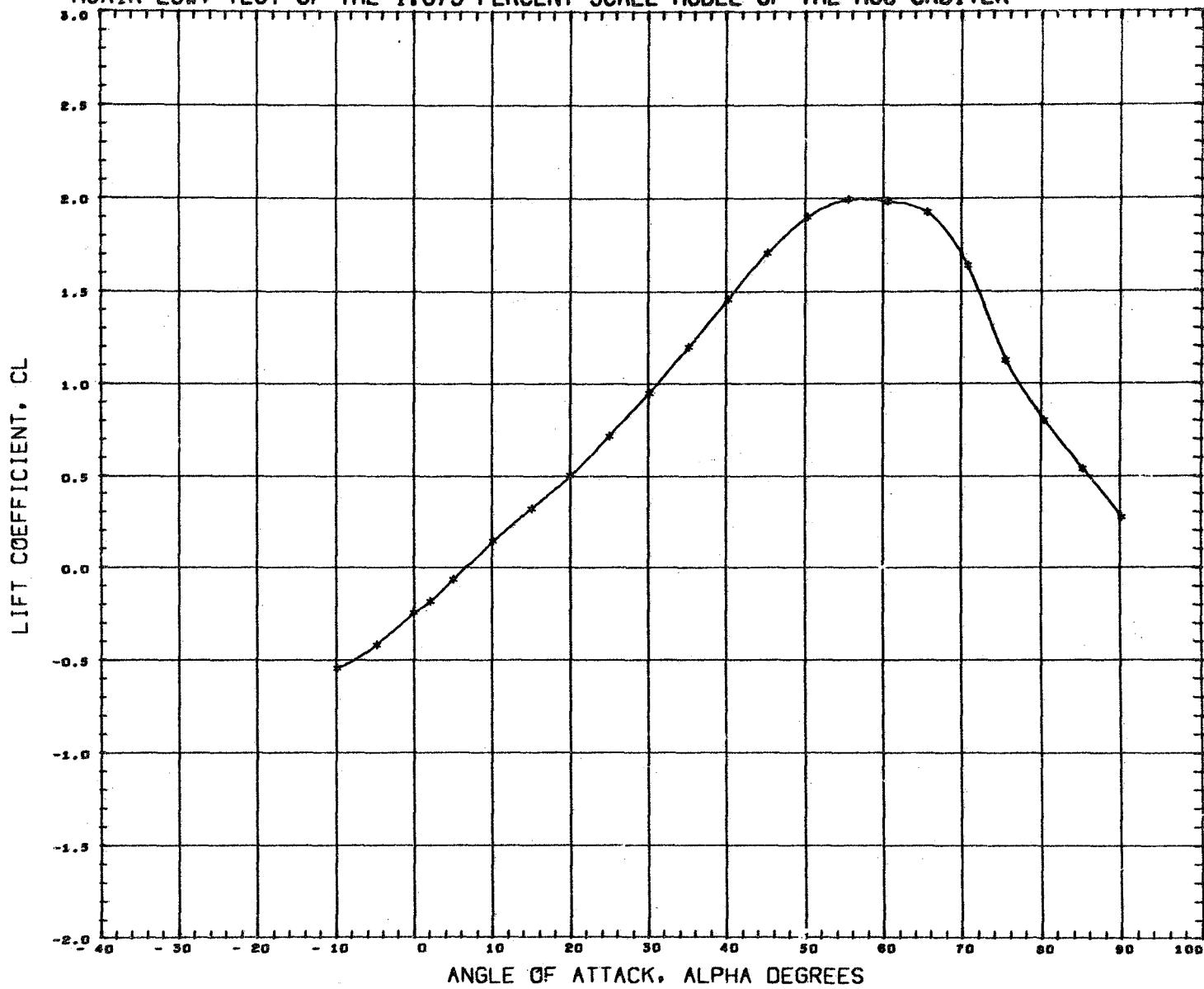


SYMBOL MACH PARAMETRIC VALUES
 • 0.250. BETA 0.000 HTAIL 0.000
 ELEVTR 20.000 PHI 0.000
 WINGLO 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XMRP 1.58370X10⁺⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁺⁰⁰ IN.
 SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

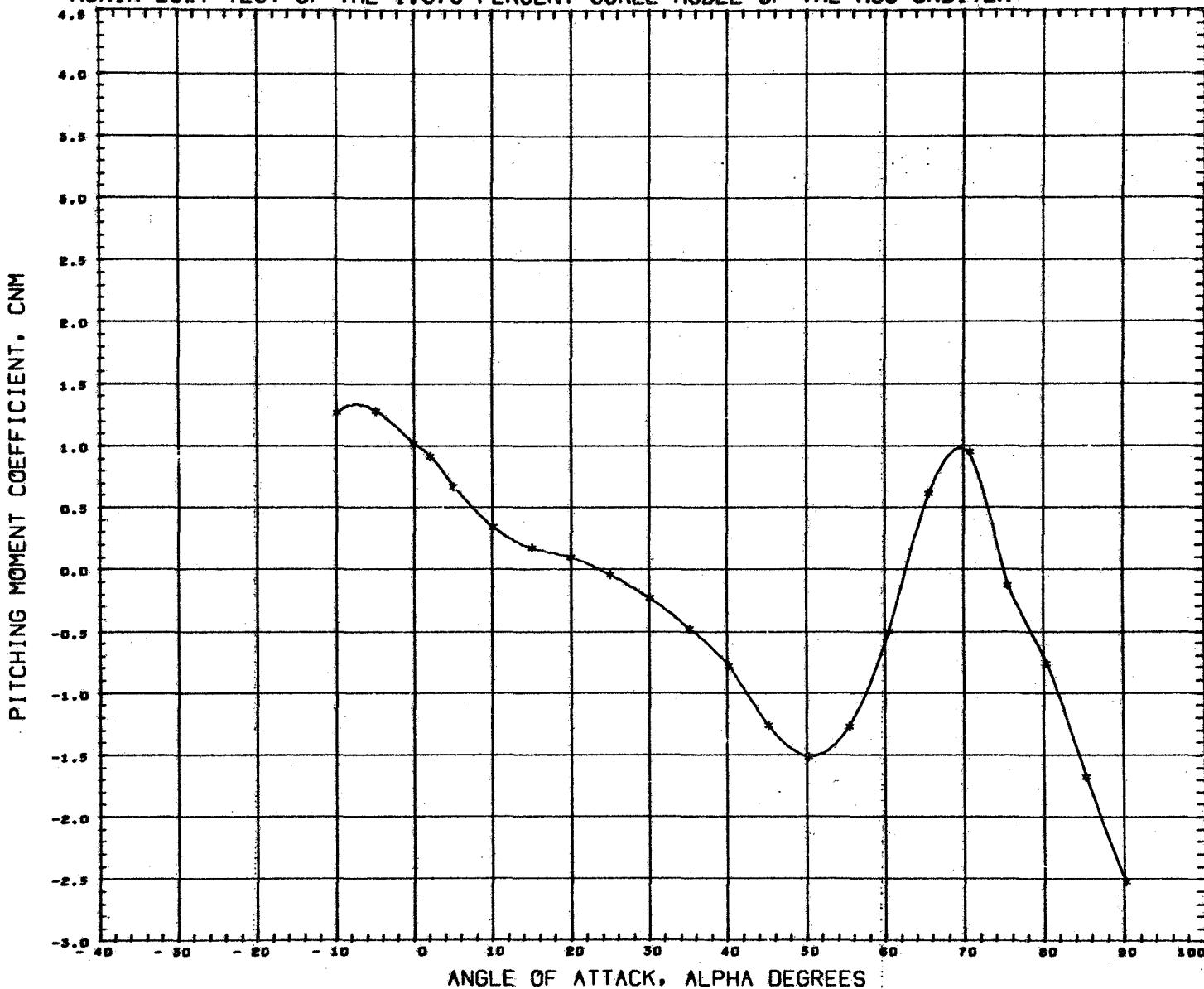


SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 0.000 HTAIL 0.000
ELEVTR - 20.000 PHI 0.000
WINGLO 0.000

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20000X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁻⁰⁰ FT.
XMRP 1.38370X10⁺⁰⁰ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	0.000	HTAIL	0.000
		ELEVTR	-20.000	PHI	0.000
		WINGLO	0.000		

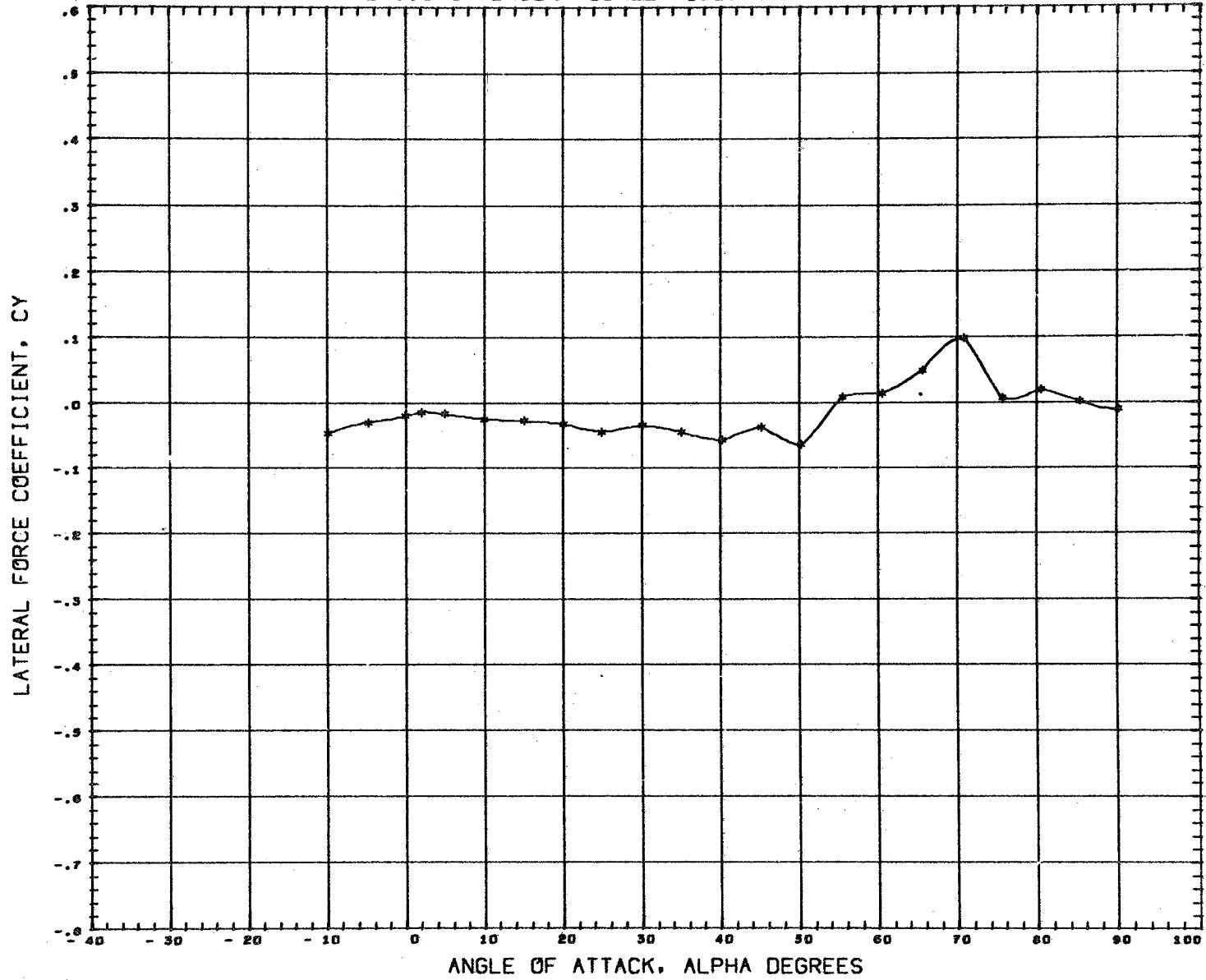
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION		
REFS	$3.208000 \times 10^{+01}$	SQ.FT.
REFL	$2.317000 \times 10^{+00}$	FT.
REFB	$1.500000 \times 10^{+01}$	FT.
XMRP	$1.363700 \times 10^{+00}$	IN.
YMRP	$0.000000 \times 10^{+00}$	IN.
ZMRP	$2.400000 \times 10^{+00}$	IN.
SCALE	1.875000×10^{-02}	SCALE

L SWT 223 1.875 PC MOD S5 ORB B1H1513V3

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 0.000 HTAIL 0.000
ELEVTR - 20.000 PHI 0.000
WINGLO 0.000

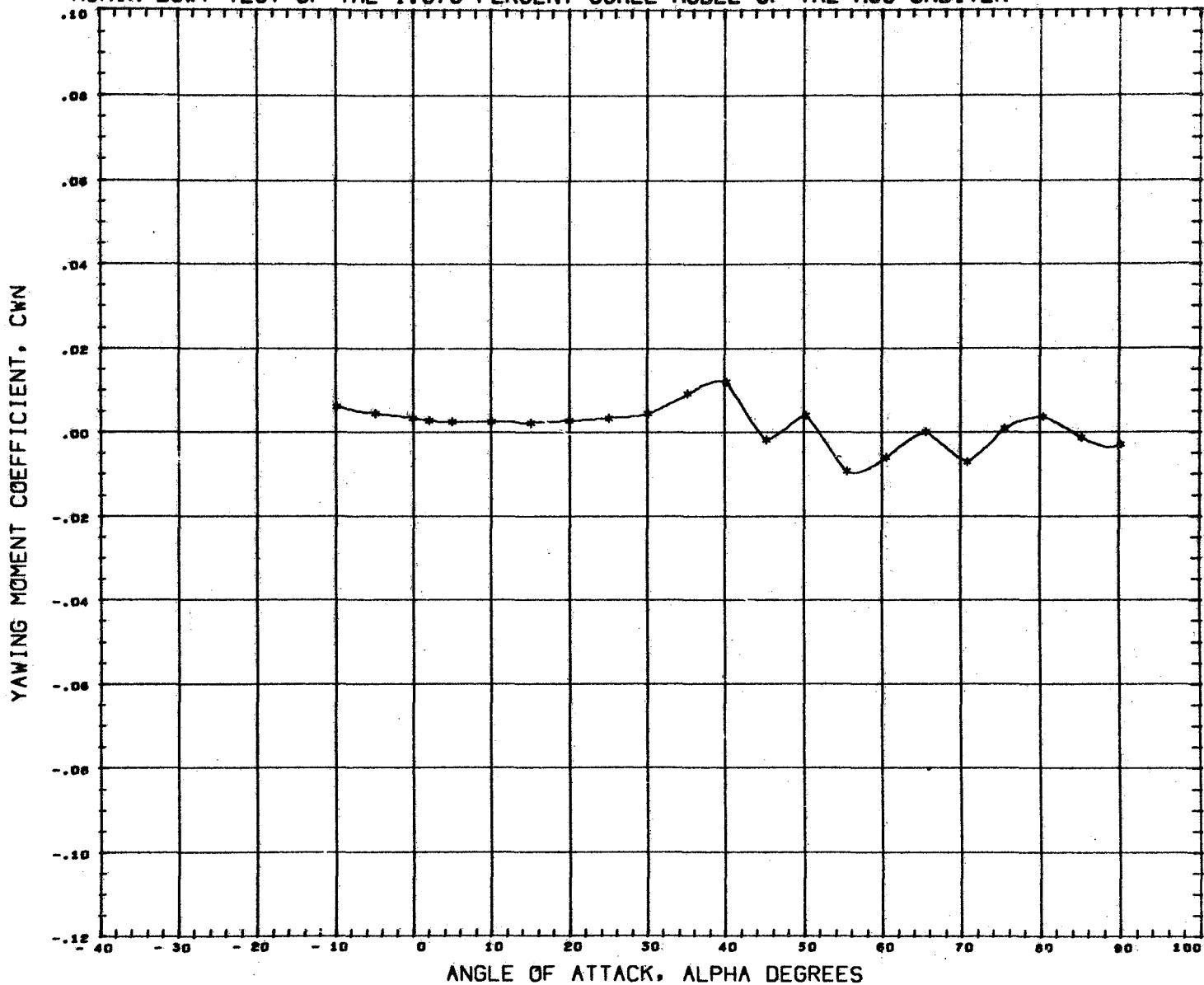
REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XNRP 1.38570X10⁺⁰⁰ IN.
YNRP 0.00000X10⁺⁰⁰ IN.
ZNRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

LSWT 223 1.875 PC MOD S5 ORB B1H1513V3

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	0.000	HTAIL	0.000
		ELEVTR	-20.000	PHI	0.000
		WINGLO	0.000		

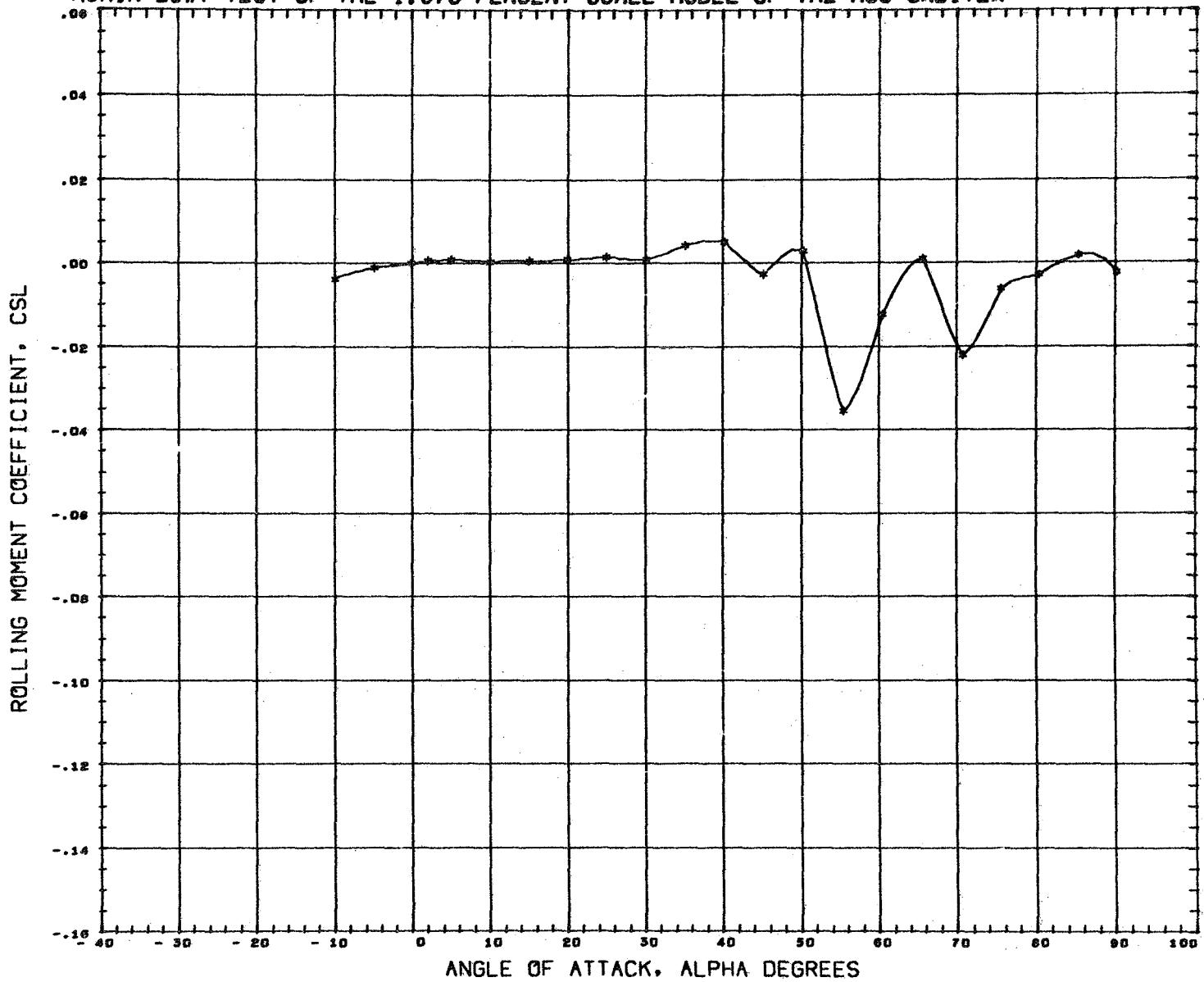
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION	
REFS	3.28000×10^{-01}
REFL	2.31700×10^{-01}
REFB	$1.50000 \times 10^{+00}$
XNRP	$1.36370 \times 10^{+03}$
YHRP	$0.00000 \times 10^{+00}$
ZNRP	$2.40000 \times 10^{+00}$
SCALE	1.87500×10^{-02}

L5WT 223 1.875 PC MOD S5 ORB B1H1513V3

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

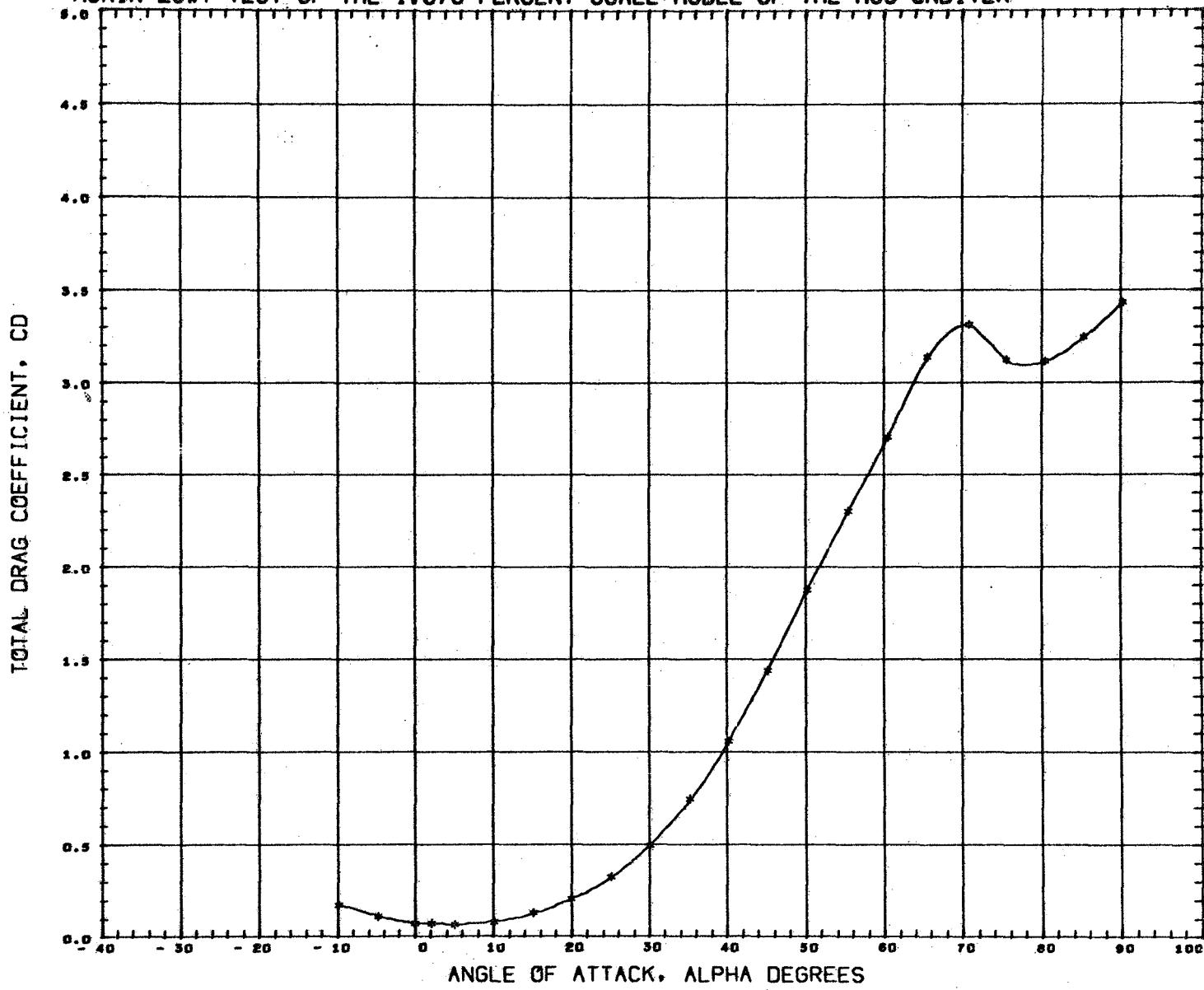


SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	0.000	HTAIL	0.000
		ELEVTR	- 20.000	PHI	0.000
		WINGLO	0.000		

REFERENCE INFORMATION		
REFS	3.208000×10^{-01}	SE.FT.
REFL	$2.317000 \times 10^{+00}$	FT.
REFB	$1.580000 \times 10^{+00}$	FT.
XMRP	$1.36370 \times 10^{+01}$	IN.
YMRP	$0.000000 \times 10^{+00}$	IN.
ZMRP	2.400000×10^{-02}	IN.
SCALE	$1.87500 \times 10^{+00}$	SCALE

REFERENCE FILE SDY 37100150

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	0.000	HTAIL	0.000
		ELEVTR	- 20.000	PHI	0.000
		WINGLO	0.000		

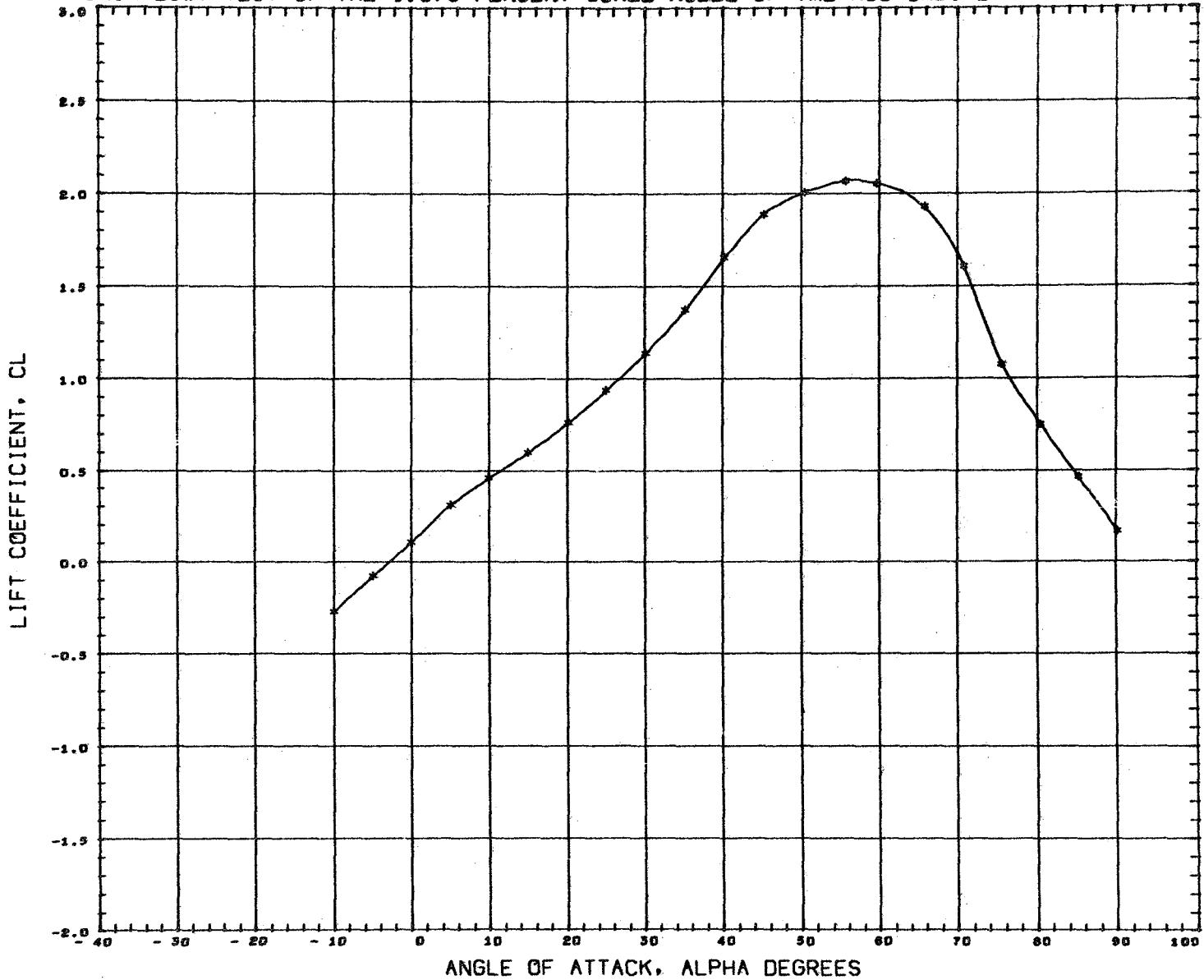
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION		
REFS	3.00000X10 ⁻⁰¹	SD.FT.
REFL	2.31700X10 ⁻⁰¹	FT.
REFB	1.50000X10 ⁺⁰⁰	FT.
Y'NRP	1.36370X10 ⁺⁰¹	IN.
YHRF	0.00000X10 ⁺⁰⁰	IN.
ZHRF	2.40000X10 ⁻⁰²	IN.
SCALE	1.87500X10 ⁻⁰²	SCALE

L5WT 223 1.875 PC MOD S5 ORB B1H1513V3

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



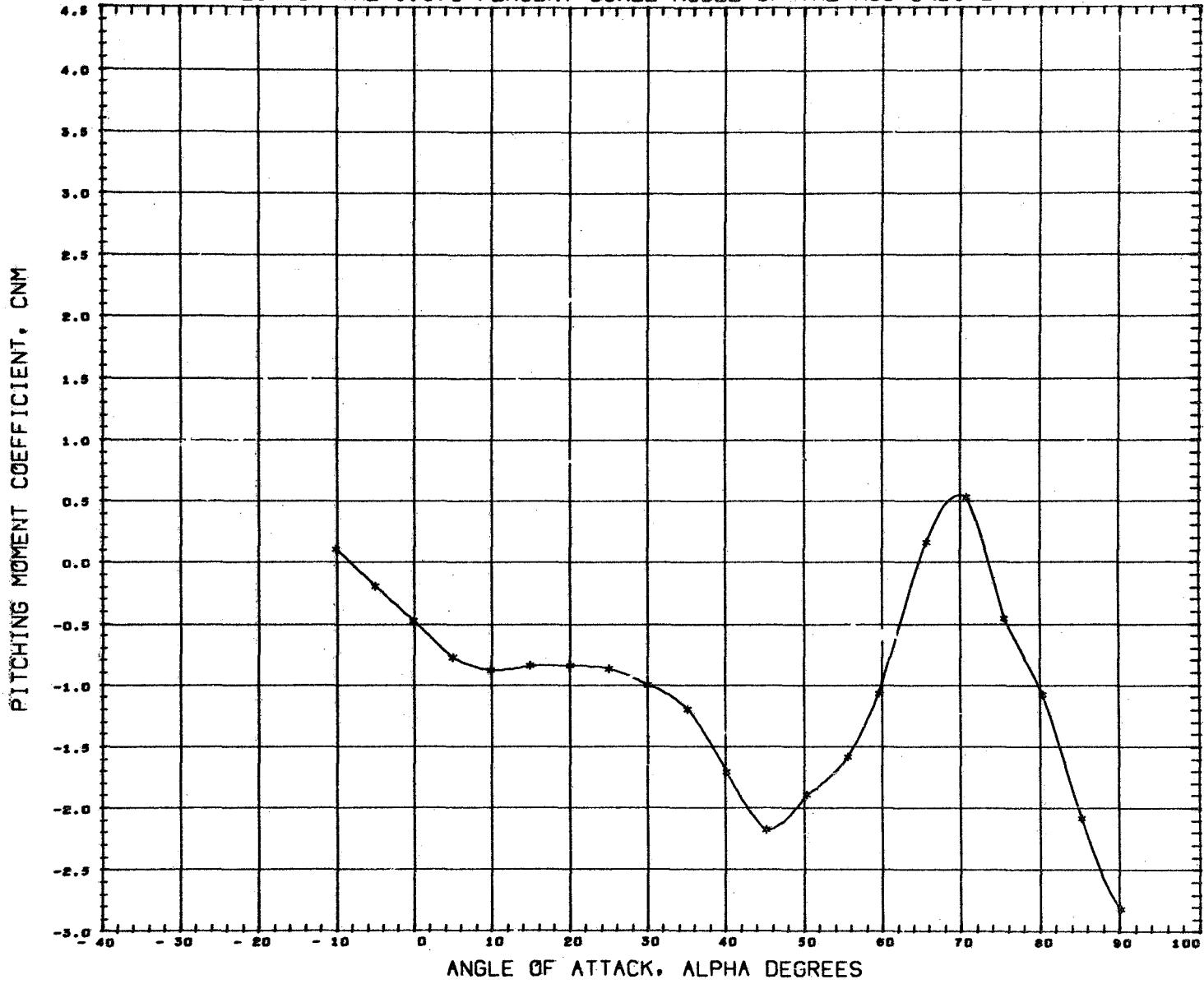
SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	5.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	0.000		

REFERENCE INFORMATION		
REFS	3.20000X10 ⁻⁰¹	SQ.FT.
REFL	2.31700X10 ⁻⁰¹	FT.
REFB	1.50000X10 ⁺⁰⁰	FT.
XHMR	1.38370X10 ⁺⁰¹	IN.
YHMR	0.00000X10 ⁺⁰⁰	IN.
ZHMR	2.40000X10 ⁻⁰²	IN.
SCALE	1.87500X10 ⁻⁰¹	SCALE

REFERENCE FILE SDY 37100150

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	5.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	0.000		

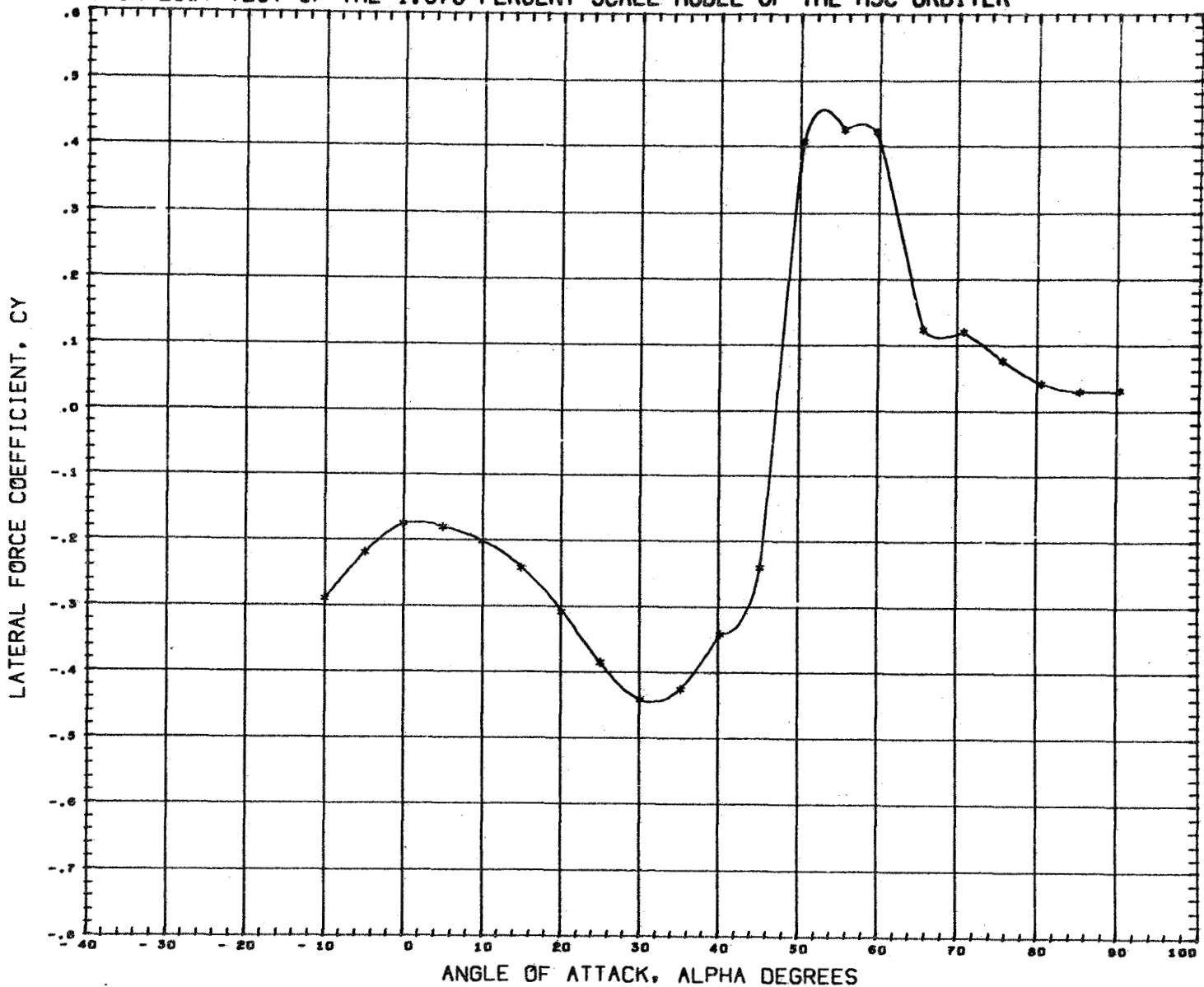
REFERENCE FILE SPY 37100150

REFERENCE INFORMATION	
REFS	3.208000×10^{-01}
REFL	2.317000×10^{-01}
REFB	$1.500000 \times 10^{+00}$
XHRP	$1.583700 \times 10^{+01}$
YHRP	$0.00000 \times 10^{+00}$
ZHRP	$2.40000 \times 10^{+00}$
SCALE	1.87500×10^{-02}

I SWT 223 1.875 PC MOD S5 ORB B1H1513V3

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	5.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	0.000		

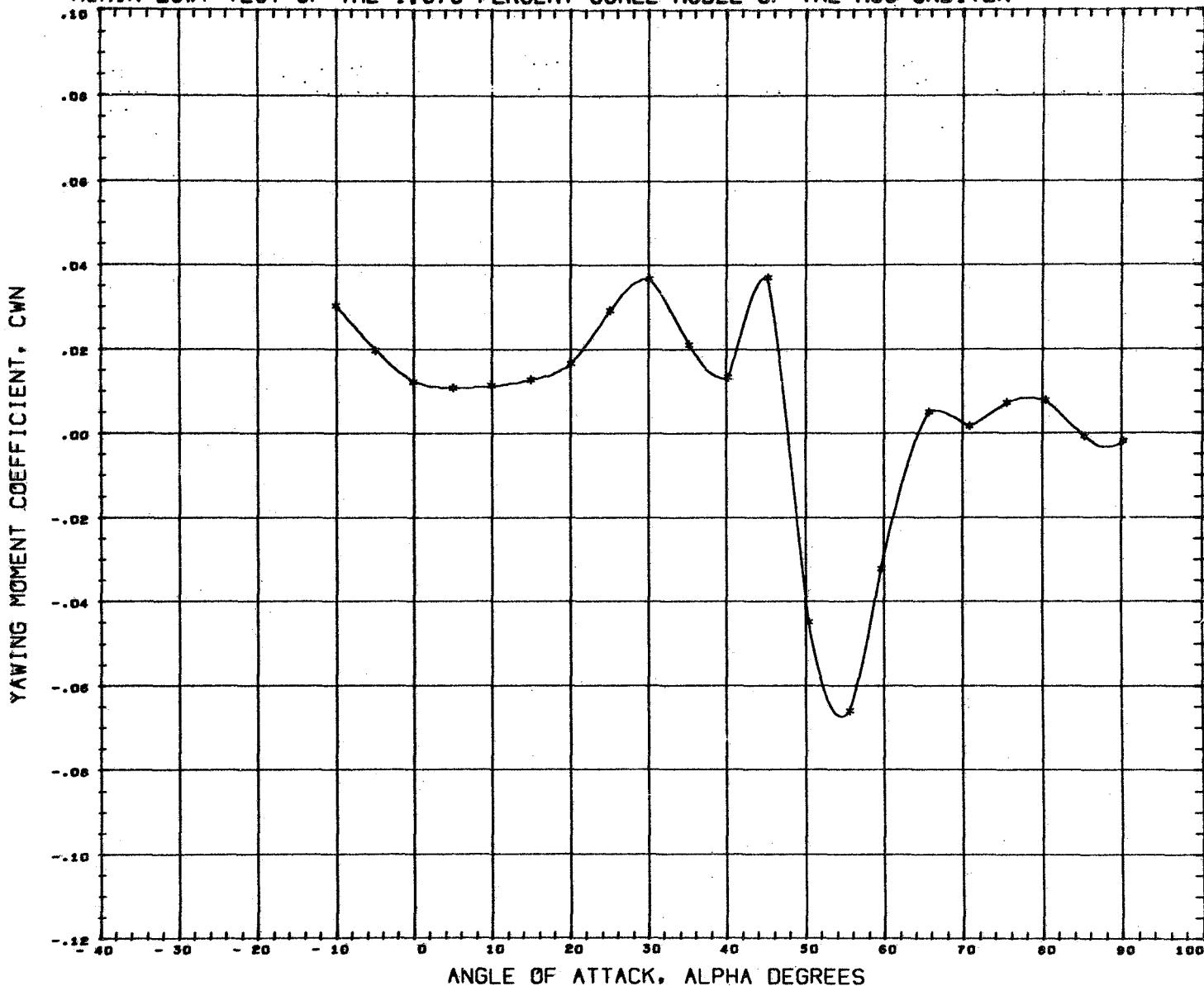
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION		
REFS	3.20800×10^{-01}	SQ.FT.
REFL	2.31700×10^{-01}	FT.
REFB	$1.50000 \times 10^{+00}$	FT.
XHRF	$1.38370 \times 10^{+01}$	IN.
YHRF	$0.00000 \times 10^{+00}$	IN.
ZHRF	$2.00000 \times 10^{+00}$	IN.
SCALE	1.87500×10^{-02}	SCALE

LSWT 223 1.875 PC MOD S5 ORB B1H1513V3

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES		
*	0.170	BETA	5.000	HTAIL
		ELEVTR	0.000	PHI
		WENCL	0.000	

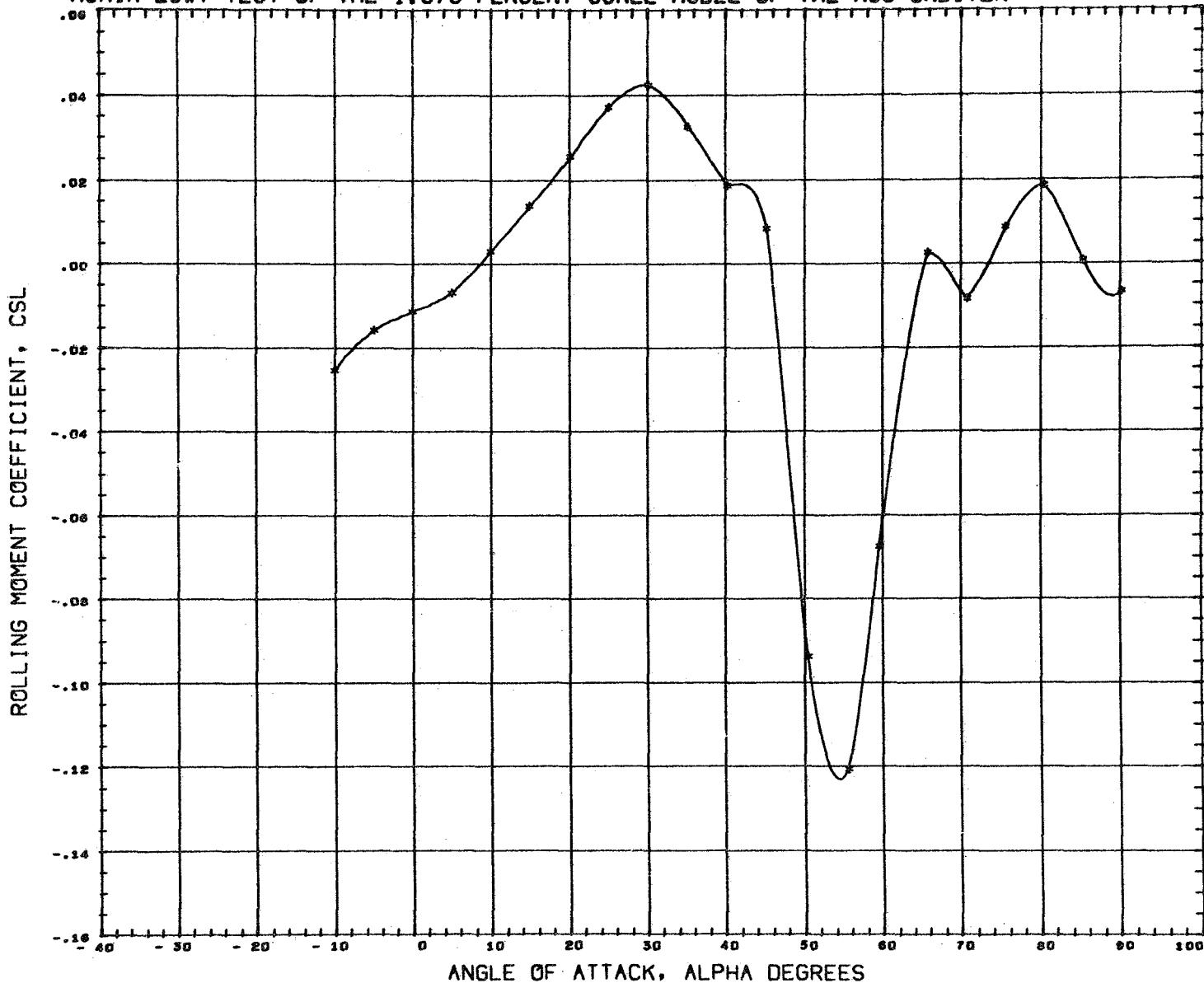
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION		
REFS	3.20800×10^{-01}	SQ.FT.
REFL	2.31700×10^{-01}	FT.
REFB	$1.50000 \times 10^{+00}$	FT.
XMRP	$1.36370 \times 10^{+01}$	IN.
YMRP	$0.00000 \times 10^{+00}$	IN.
ZMRP	$2.40000 \times 10^{+00}$	IN.
SCALE	1.87500×10^{-02}	SCALE

LSWT 223 1.875 PC MOD S5 ORB B1H1513V3

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	5.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	0.000		

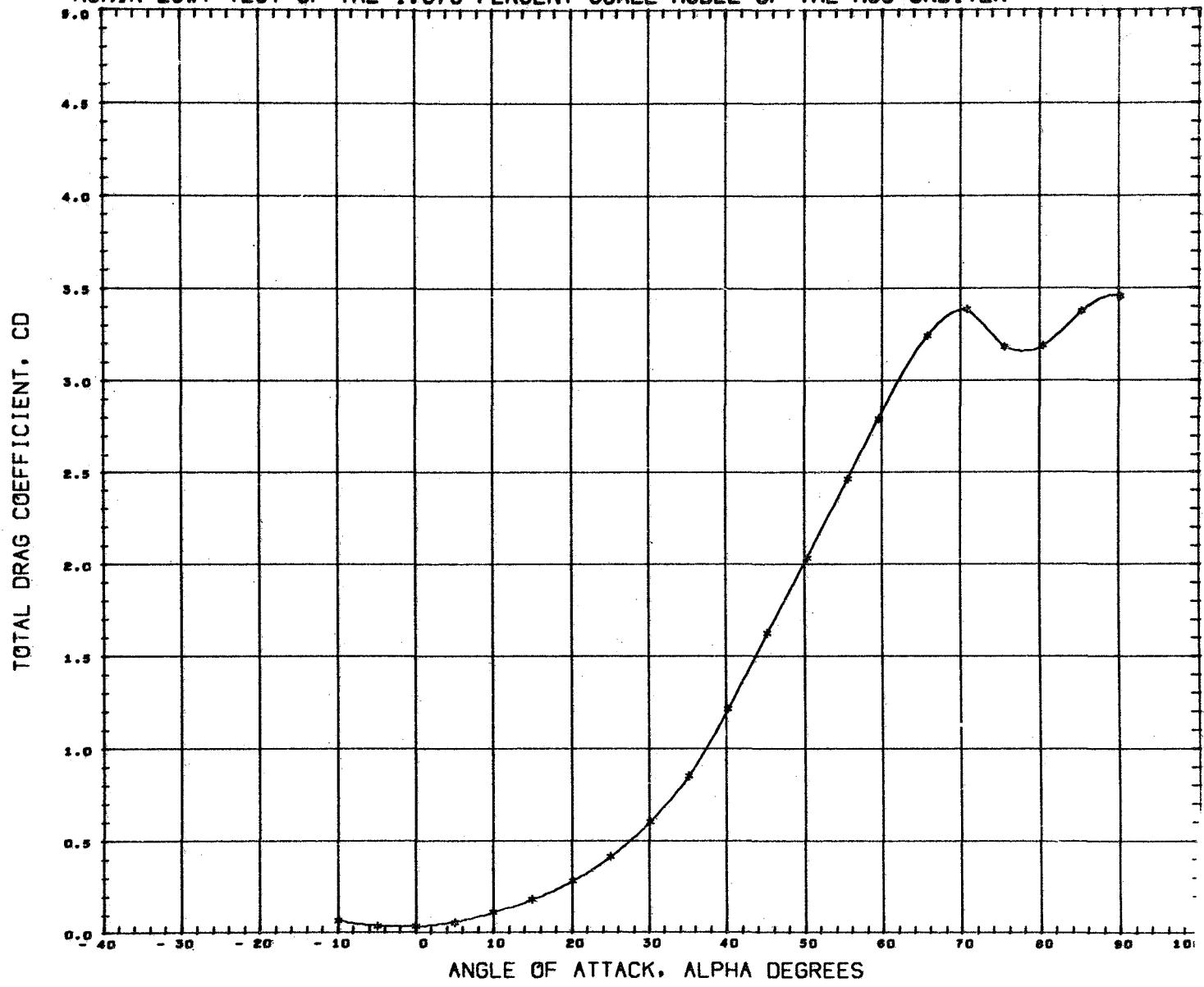
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION	
REFS	3.28000×10^{-01}
REFL	$3.31700 \times 10^{+00}$
REFB	$1.50000 \times 10^{+00}$
XMRP	$3.86370 \times 10^{+00}$
YMRP	$0.00000 \times 10^{+00}$
ZMRP	$2.40000 \times 10^{+00}$
SCALE	1.87500×10^{-02}

LSWT 223 1.875 PC MOD S5 ORB B1H1513V3

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 5.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 0.000

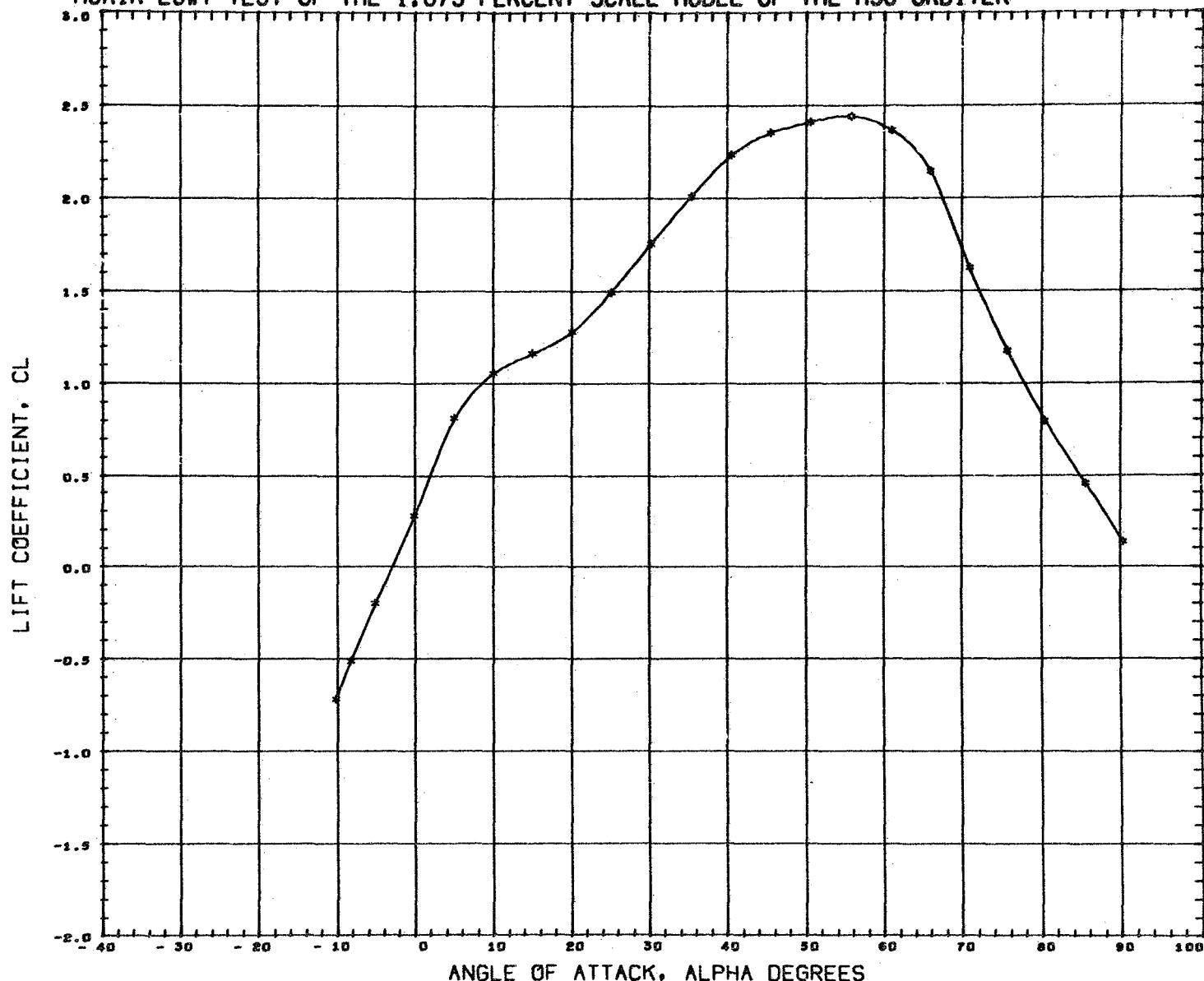
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800×10^{-01} SQ.FT.
REFL $2.31700 \times 10^{+01}$ FT.
REFB $1.50000 \times 10^{+00}$ FT.
XMRP $1.36370 \times 10^{+01}$ IN.
YMRP $0.00000 \times 10^{+00}$ IN.
ZMRP $2.40000 \times 10^{+00}$ IN.
SCALE 1.87500×10^{-02} SCALE

LSWT 223 1.875 PC MOD S5 ORB B1H1513V3

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MCAIR LSWT TEST OF THE 1.875-PERCENT SCALE MODEL OF THE MSC ORBITER

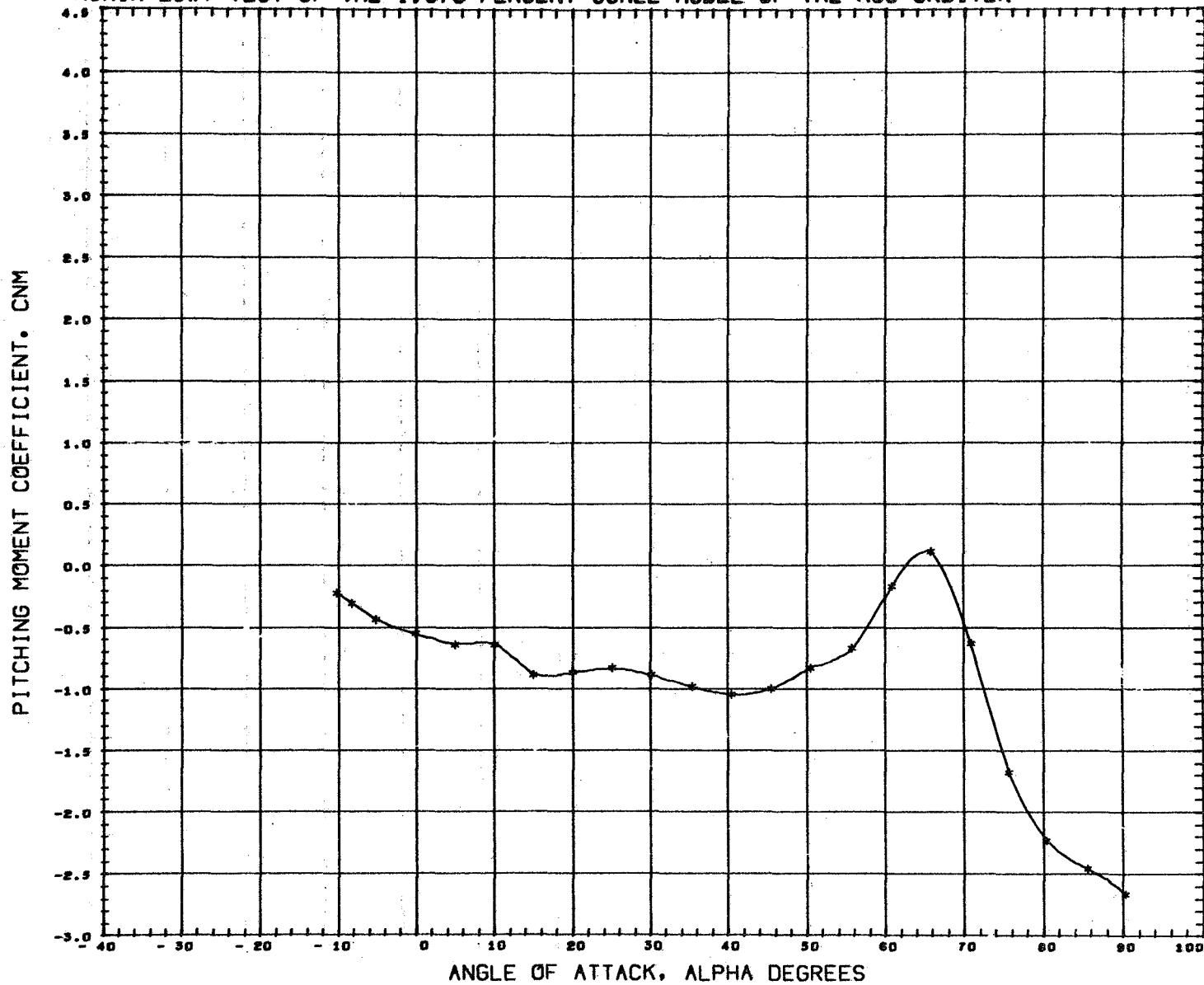


SYMBOL	MACH	PARAMETRIC VALUES		
*	0.170	BETA	5.000	HTAIL
		ELEVTR	2.000	PHI

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION		
REFS	3.20600×10^{-01}	SQ.FT.
REFL	2.31700×10^{-01}	FT.
REFB	$1.50000 \times 10^{+00}$	FT.
XHRF	$1.38370 \times 10^{+01}$	IN.
YHRF	$0.00000 \times 10^{+00}$	IN.
ZHRF	$2.40000 \times 10^{+00}$	IN.
SCALE	1.87500×10^{-02}	SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	5.000	HTAIL	0.000
		ELEVTR	2.000	FHI	0.000
		WINGL	12.211		

REFERENCE INFORMATION

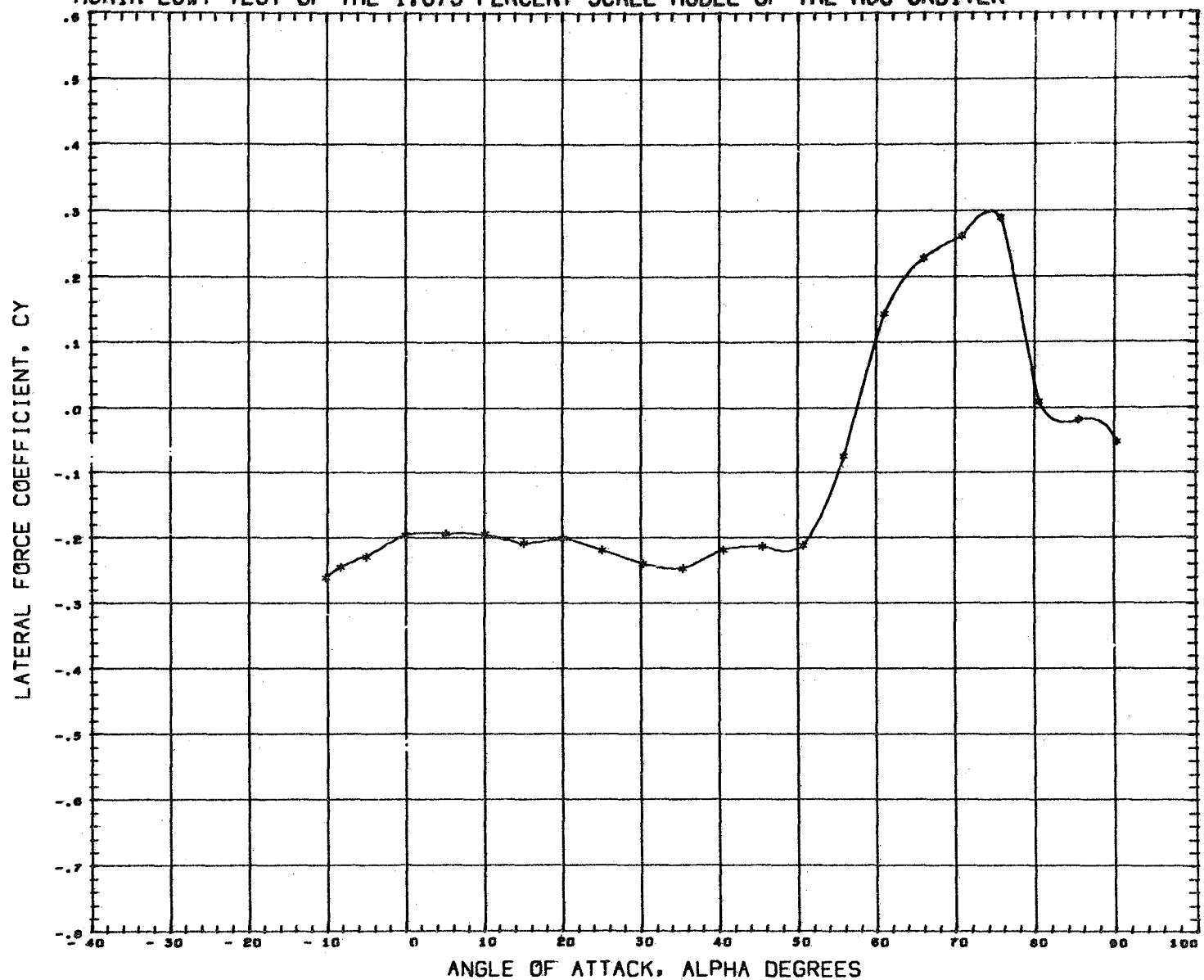
REFS	3.20800X10 ⁻⁰¹	Sq.FT.
REFL	3.31700X10 ⁺⁰⁰	FT.
REFB	1.50000X10 ⁺⁰¹	FT.
XMRP	1.38370X10 ⁺⁰⁰	IN.
YMRP	0.00000X10 ⁺⁰⁰	IN.
ZMRP	2.40000X10 ⁺⁰⁰	IN.
SCALE	1.87500X10 ⁻⁰²	SCALE

REFERENCE FILE SDY 37100150

1-SWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

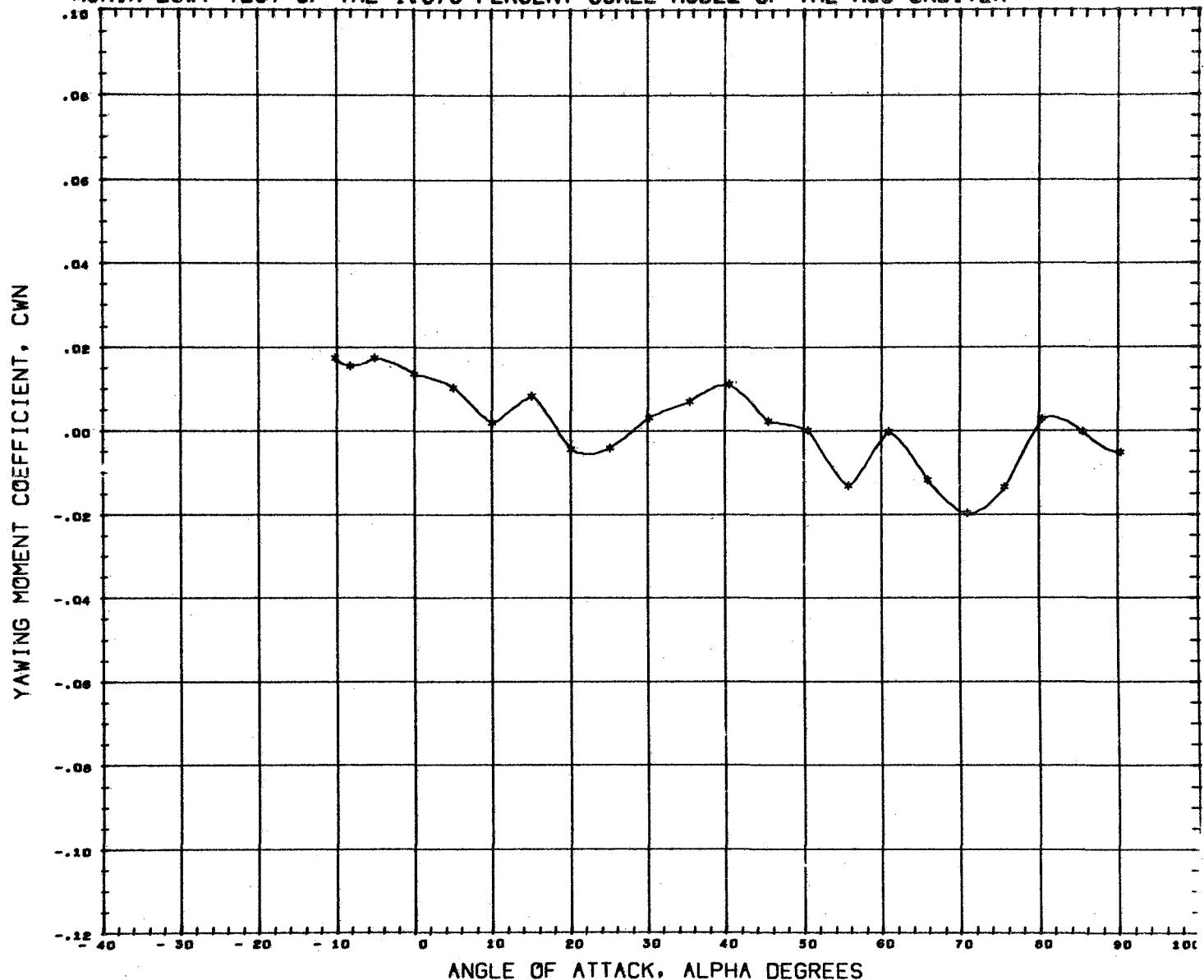


SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	5.000	HTAIL	0.000
		ELEVTR	2.000	PHI	0.000
		WINGL	12.211		

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION	
REFS	3.20800×10^{-01} Sq.FT.
REFL	2.31700×10^{-01} FT.
REFB	$1.50000 \times 10^{+01}$ FT.
XMRP	$1.36370 \times 10^{+01}$ IN.
YMRP	$0.00000 \times 10^{+00}$ IN.
ZMRP	2.40000×10^{-02} IN.
SCALE	1.87500×10^{-02} SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES	
*	0.170	BETA	5.000 HTAIL
		ELEVTR	2.000 PHI
		WINGL	12.211

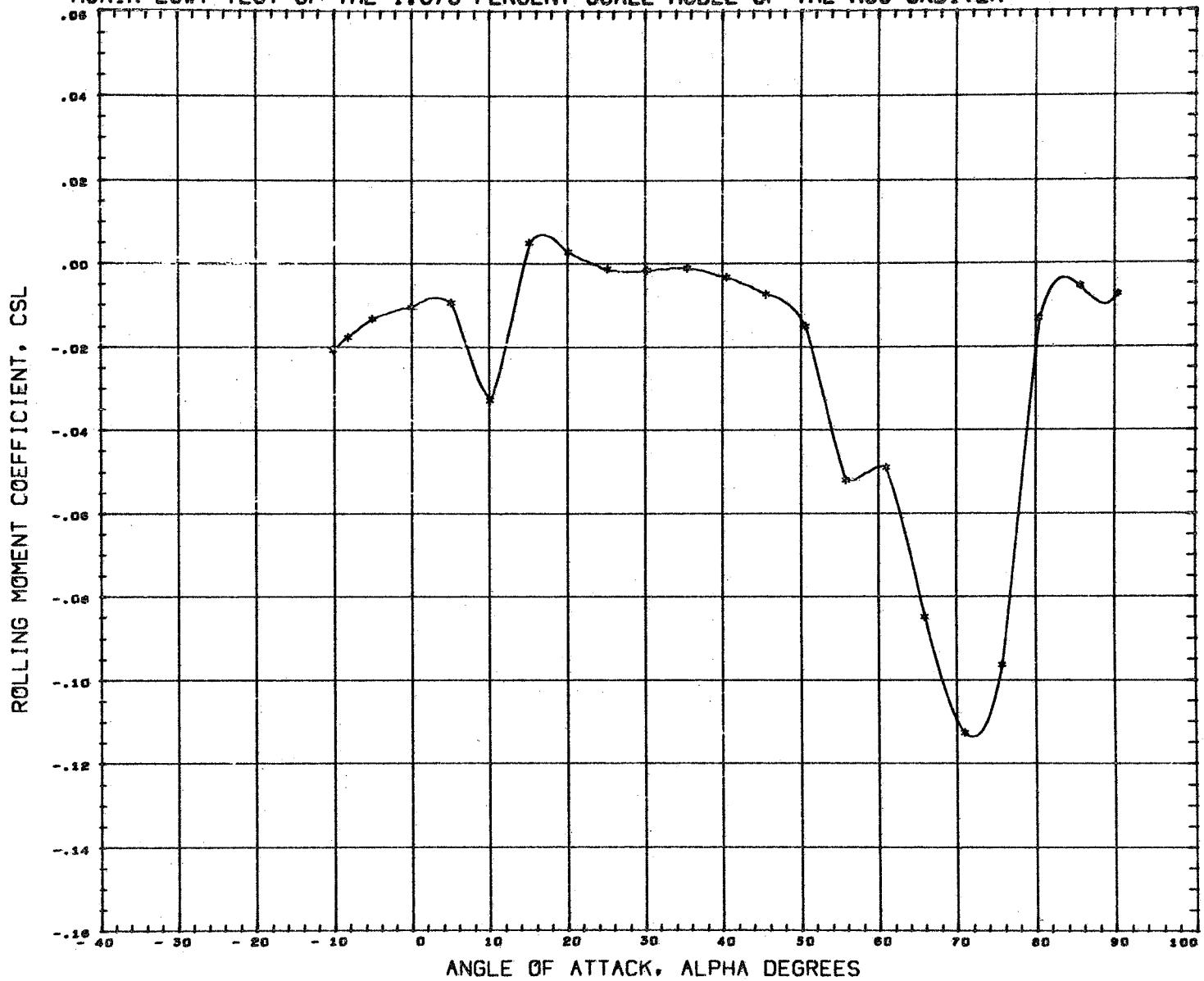
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
 REFS 3.20000X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XMRP 1.38570X10⁺⁰⁰ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.44000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

L5WT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



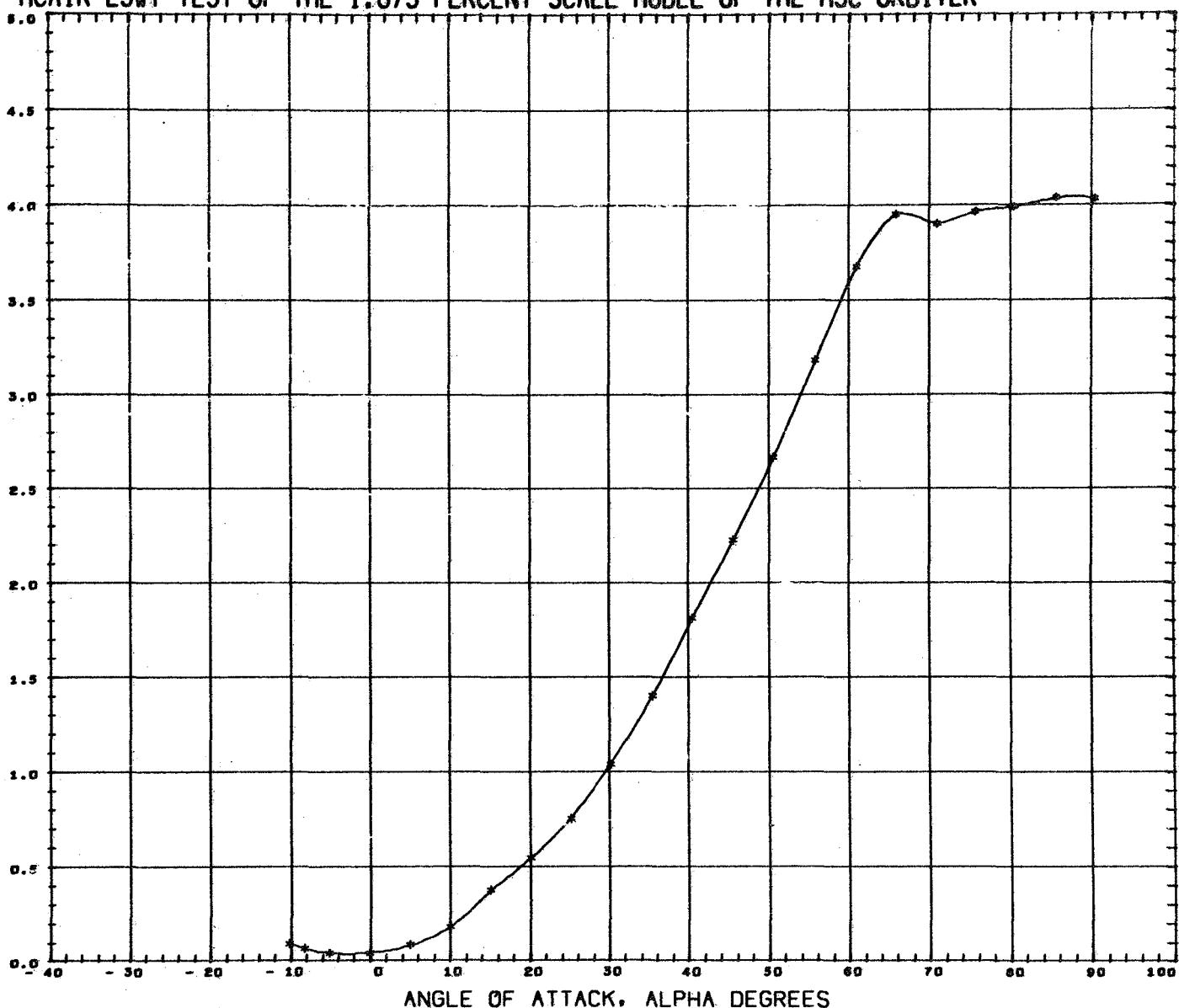
SYMBOL	HACH	PARAMETRIC VALUES		
*	0.170	BETA	5.000	HTAIL 0.000
		ELEVTR	2.000	PHI 0.000
		WINGL	12.211	

REFRENCE FILE SDY 37100150

REFERENCE INFORMATION		
REFS	3.20800×10^{-01}	SQ.FT.
REFL	2.31700×10^{-01}	FT.
REFB	$1.50000 \times 10^{+00}$	FT.
XHRP	$1.38370 \times 10^{+01}$	IN.
YHRP	$0.00000 \times 10^{+00}$	IN.
ZHRP	2.40000×10^{-02}	IN.
SCALE	1.87500×10^{-02}	SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

TOTAL DRAG COEFFICIENT, CD



SYMBOL MACH PARAMETRIC VALUES
 * 0.170 BETA 5.000 HTAIL 0.000
 ELEVTR 2.000 PHI 0.000
 WINGL 12.211

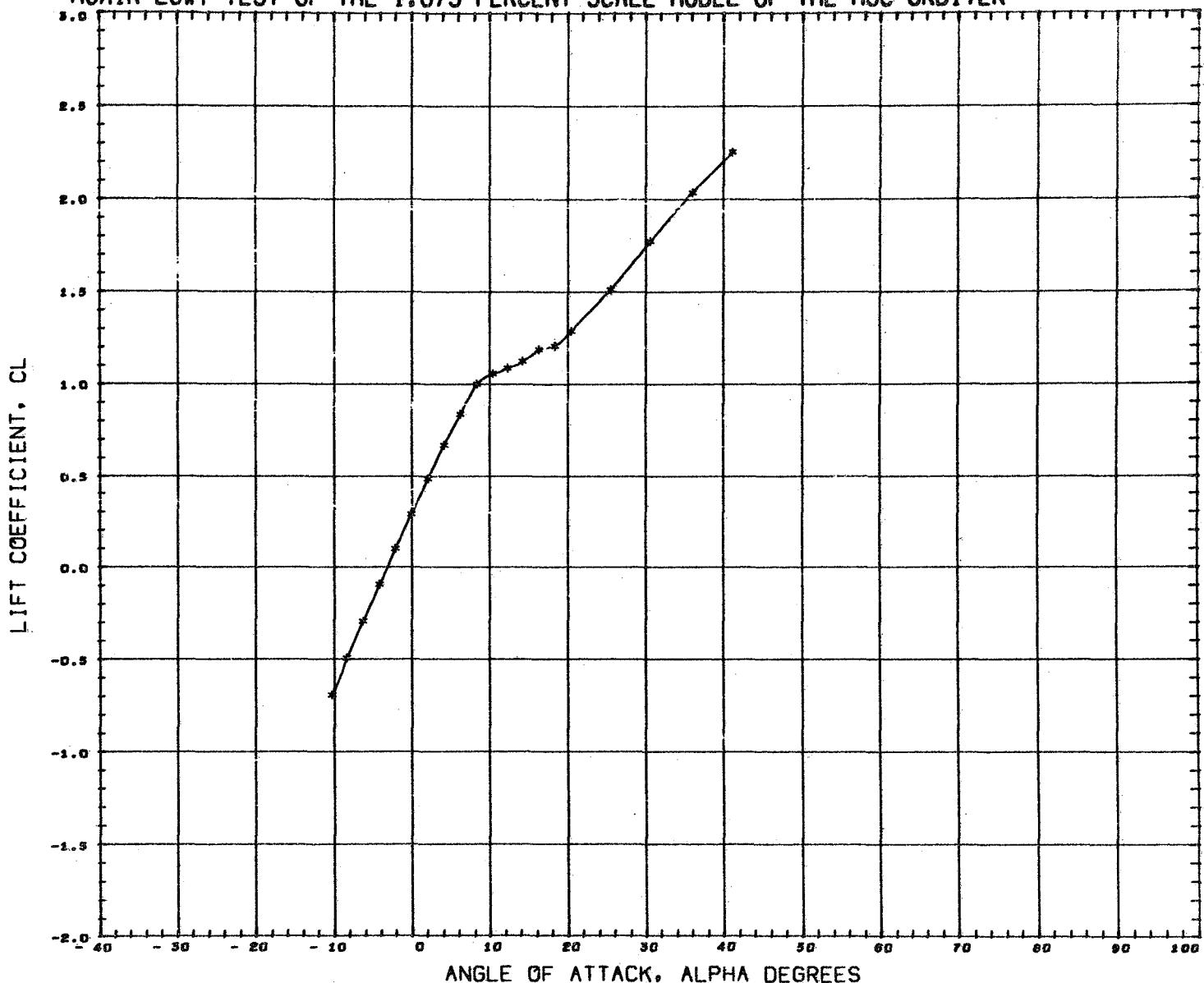
REFERENCE FILE 4DY 37100150

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ Sq.FT.
 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XHRP 1.36370X10⁺⁰¹ IN.
 YHRP 0.00000X10⁺⁰⁰ IN.
 ZHRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

(RC1H02) 28 JUL 70 PAGE 226

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES			
*	0.250	BETA	5.000	HTAIL	0.000
		ELEVTR	2.000	PHI	0.000
		WINGL	12.211		

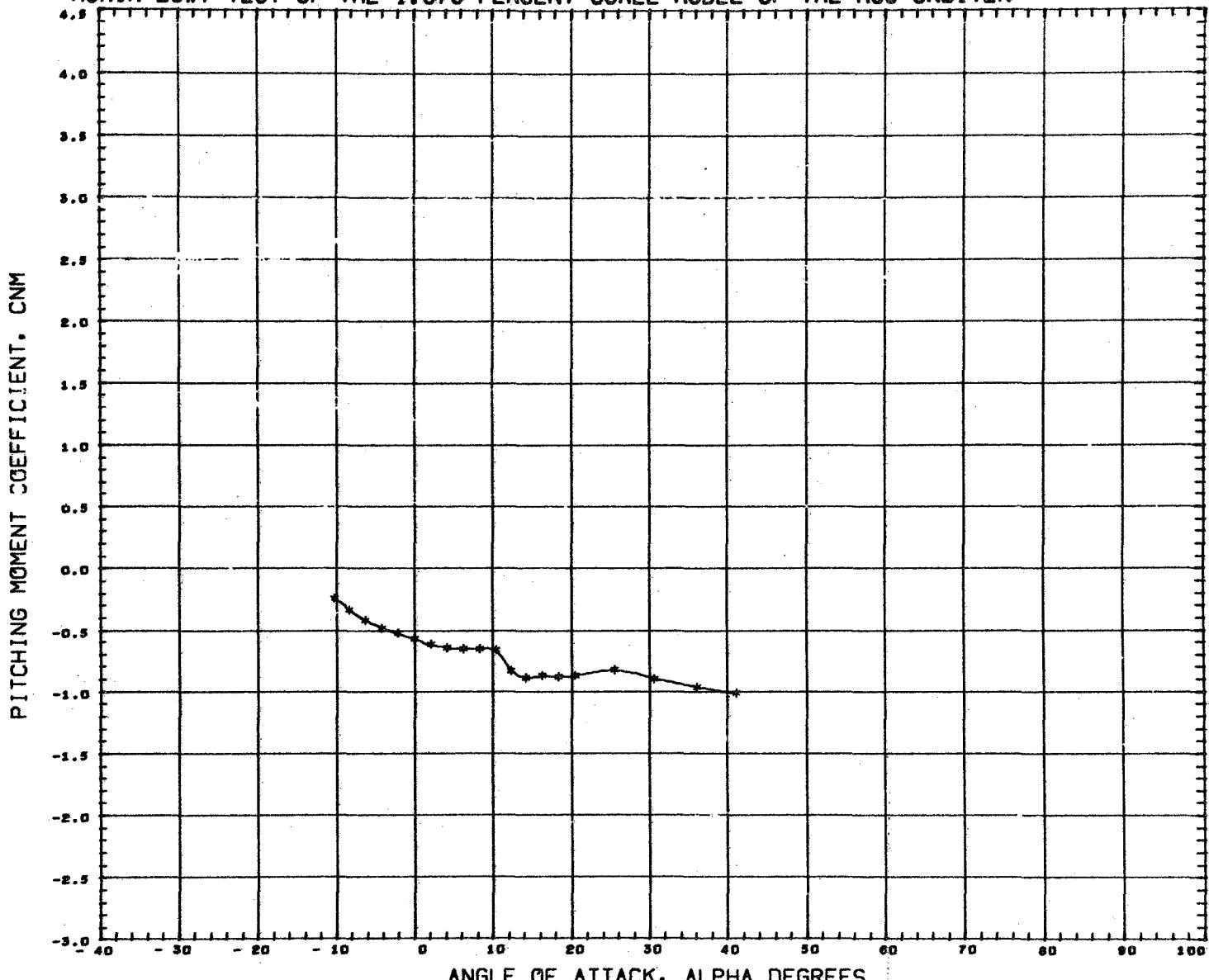
REFERENCE INFORMATION		
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REFL	2.31700×10^{-01}	FT.
REFB	$1.50000 \times 10^{+00}$	FT.
XMRP	$1.38870 \times 10^{+01}$	IN.
YMRP	$0.00000 \times 10^{+00}$	IN.
ZMRP	$2.40000 \times 10^{+00}$	IN.
SCALE	1.87500×10^{-02}	SCALE

REFERENCE FILE SDY 37100150

L5WT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

(RC1H03) 28 JUL 70 PAGE 227

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

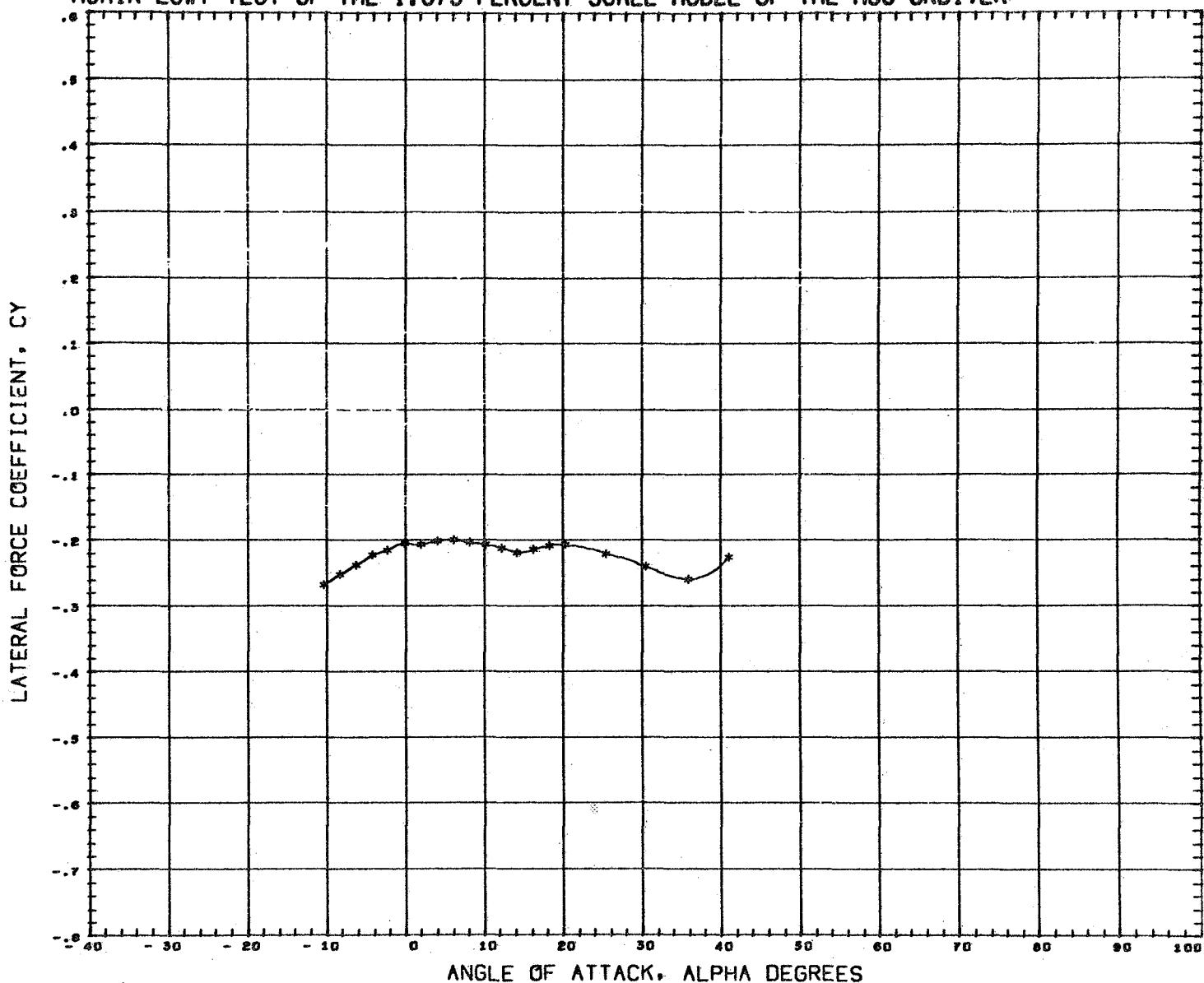


SYMBOL MACH PARAMETRIC VALUES
* 0.290 BETA 5.000 HTAIL 0.000
ELEVTR 2.000 PHI 0.000
WINGL 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20000X10⁻⁰¹ Sq. FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 5.000 HTAIL 0.000
ELEVTR 2.000 PHI 0.000
WINGL 12.211

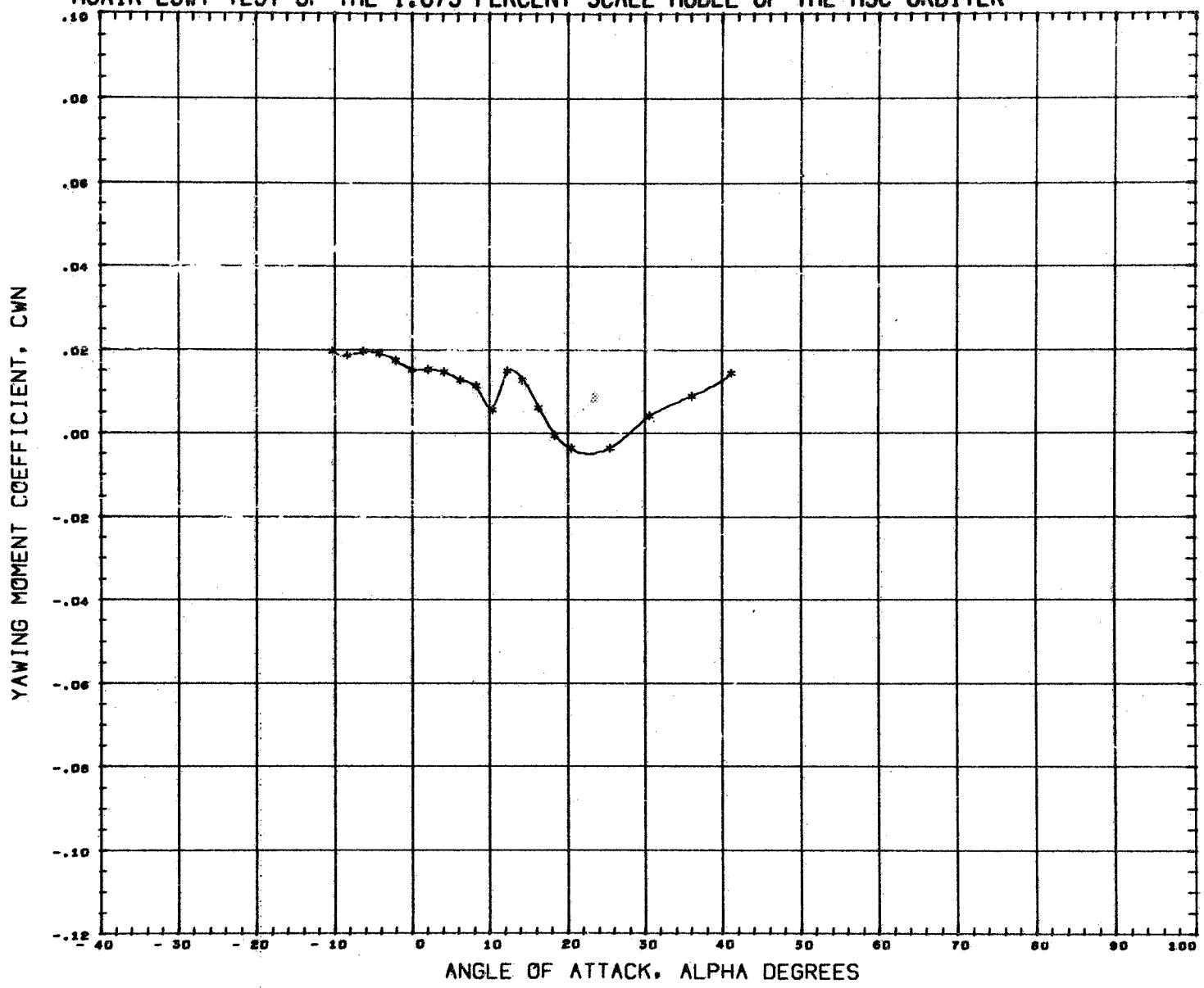
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REFB 1.50000X10⁺⁰¹ FT.
XHRF 1.38370X10⁺⁰⁰ IN.
YHRF 0.00000X10⁺⁰⁰ IN.
ZHRF 2.40000X10⁻⁰² IN.
SCALE 1.67500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

LSWT 223 1.875 PC MOD S5 ORB. 81H1513V3W1

(RC1H03) 28 JUL 70 PAGE 229

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 5.000 HTAIL 0.000
ELEVTR 2.000 PHI 0.000
WINGL 12.211

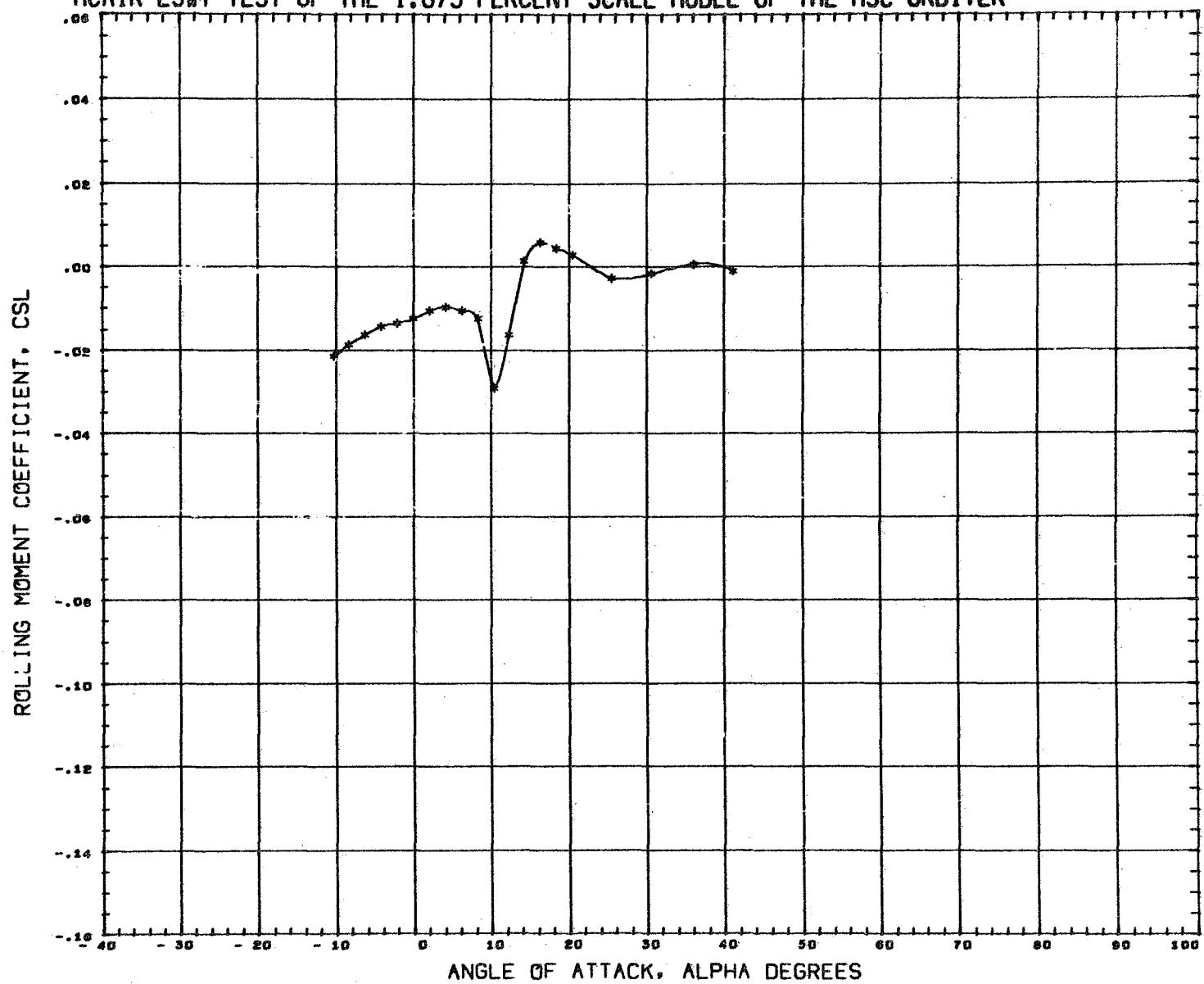
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XHRP 1.38370X10⁺⁰¹ IN.
YHRP 0.00000X10⁺⁰⁰ IN.
ZHRP 2.40000X10⁺⁰² IN.
SCALE 1.07500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

(RC1H03) 28 JUL 70 PAGE 230

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 5.000 HTAIL 0.000
 ELEVTR 2.000 PHI 0.000
 WINGL 12.211

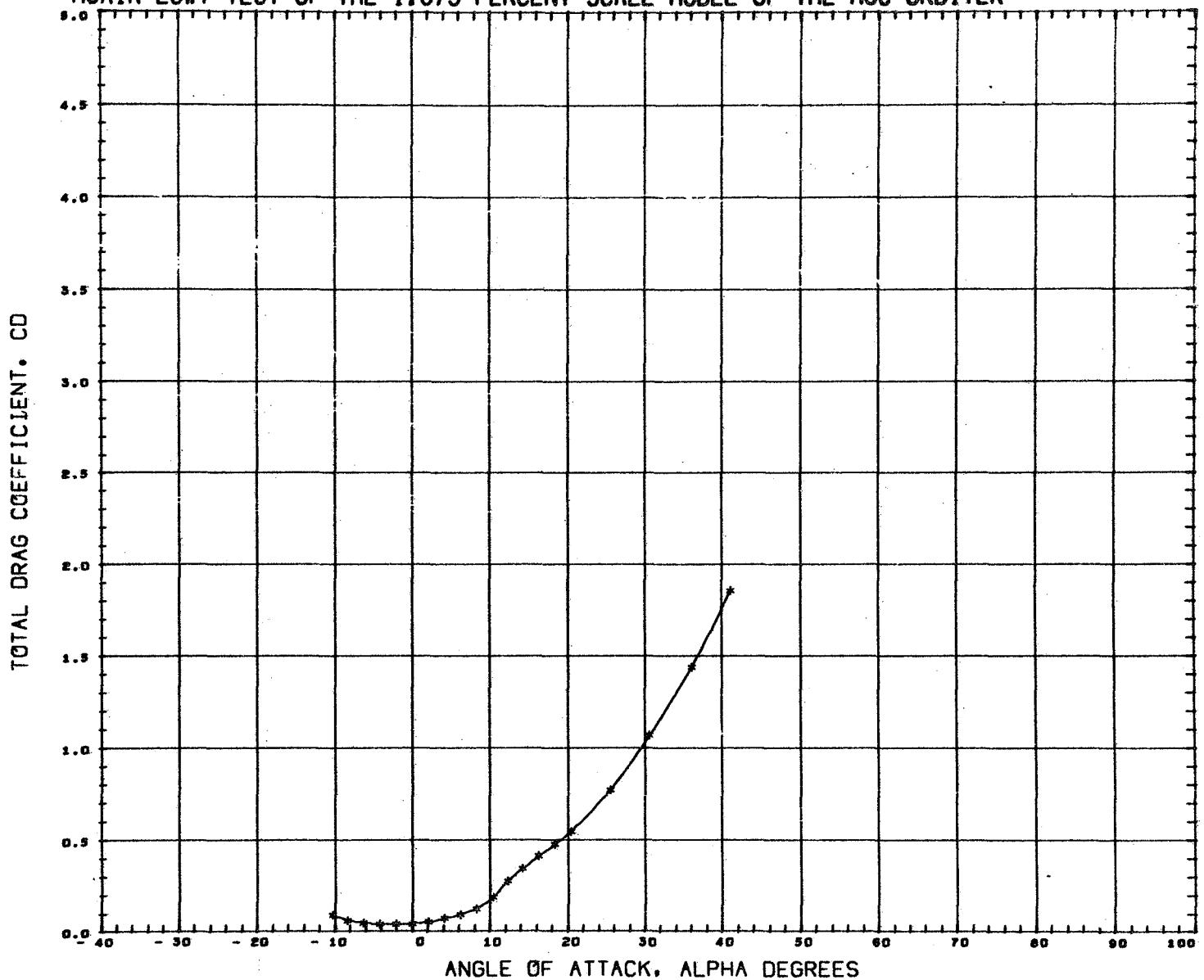
REFERENCE INFORMATION
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REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100152

LSWT 223 1.875 PC MOD S5 ORB. E1H1513V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

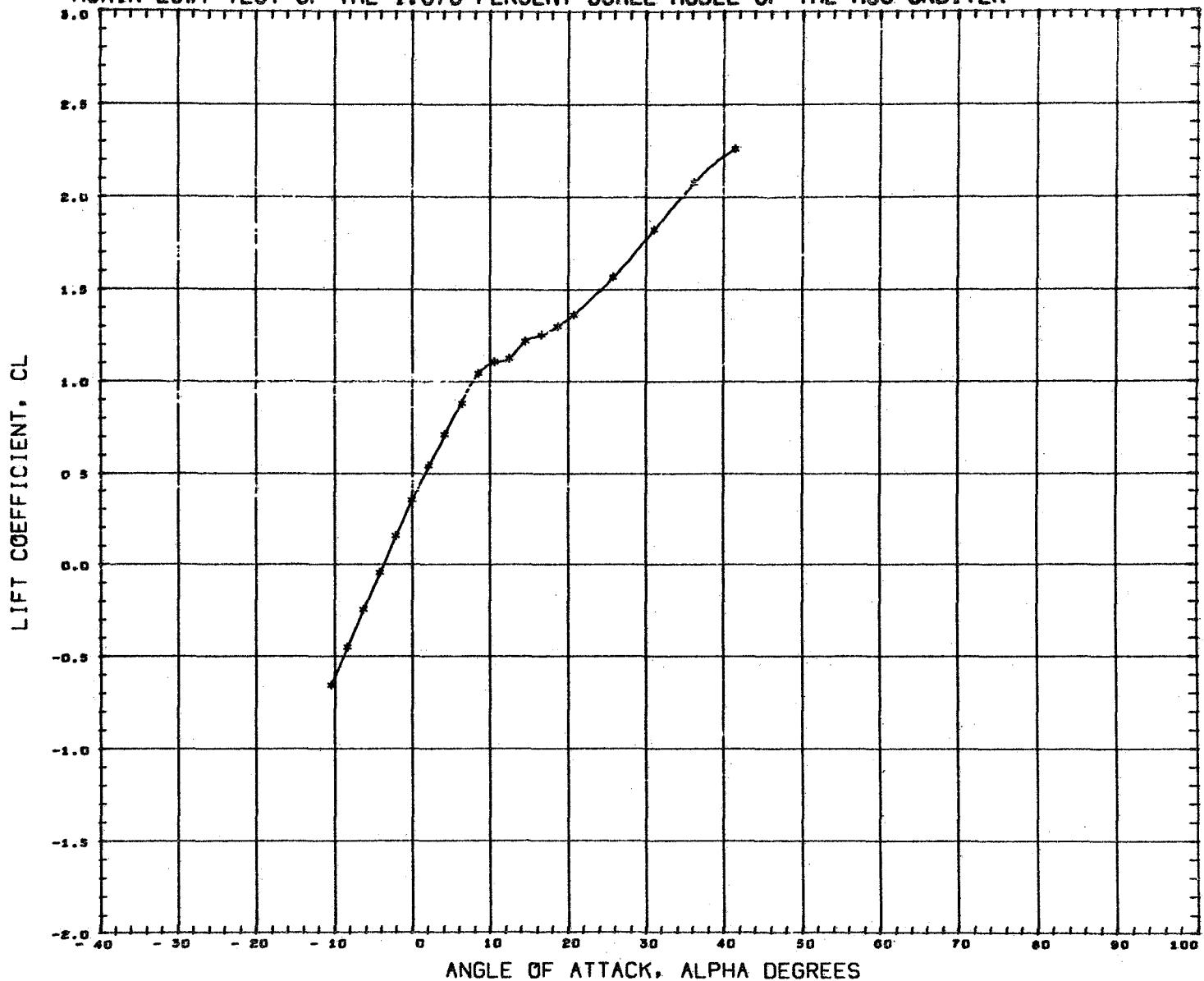


SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 5.000 HTAIL 0.000
 ELEVTR 2.000 PHI 0.000
 WINGL 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XHRP 1.36370X10⁺⁰¹ IN.
YHRP 0.00000X10⁺⁰⁰ IN.
ZHRP 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

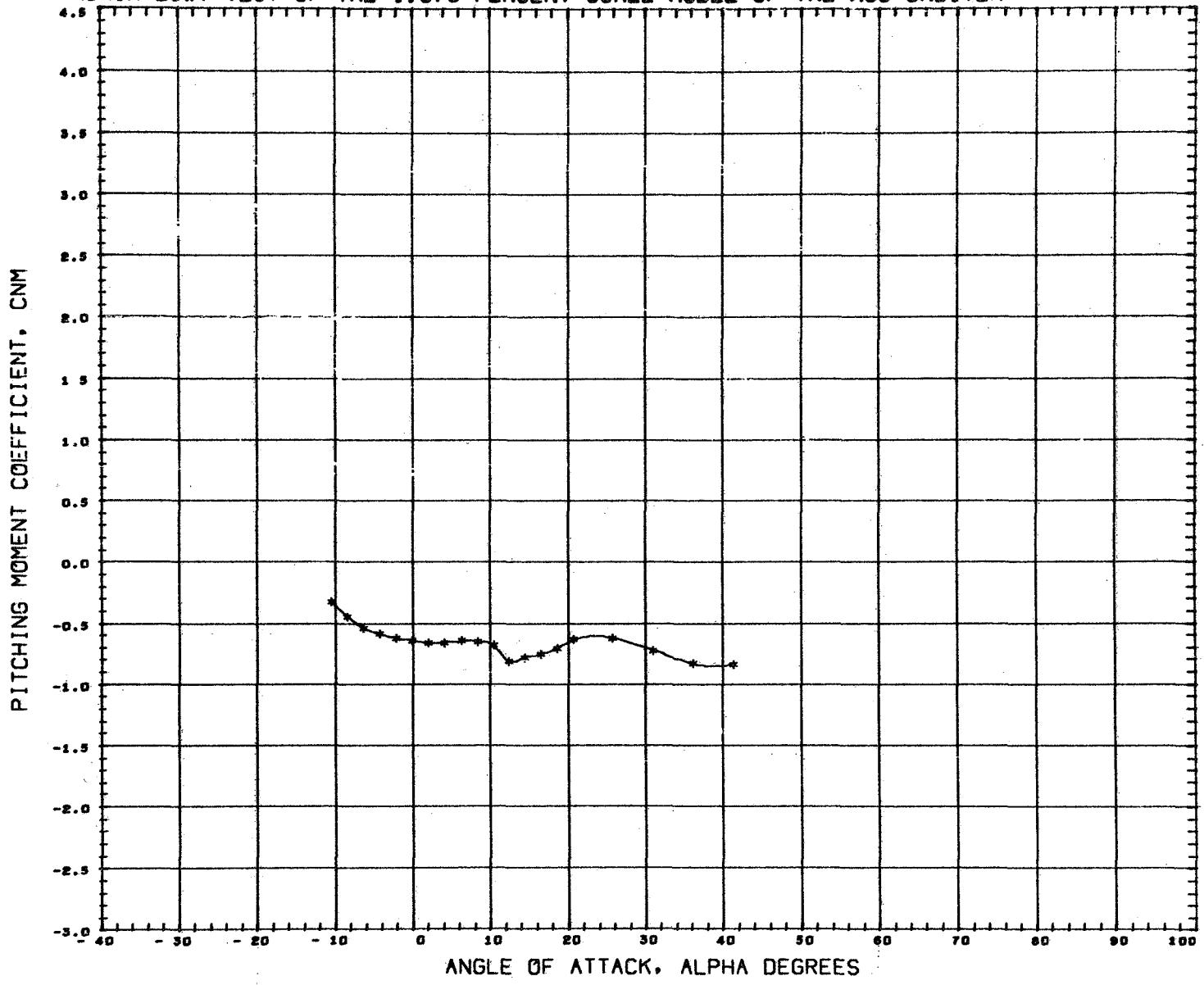


SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 10.000 HTAIL 0.000
ELEVTR 2.000 PHI 0.000
WINGL 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

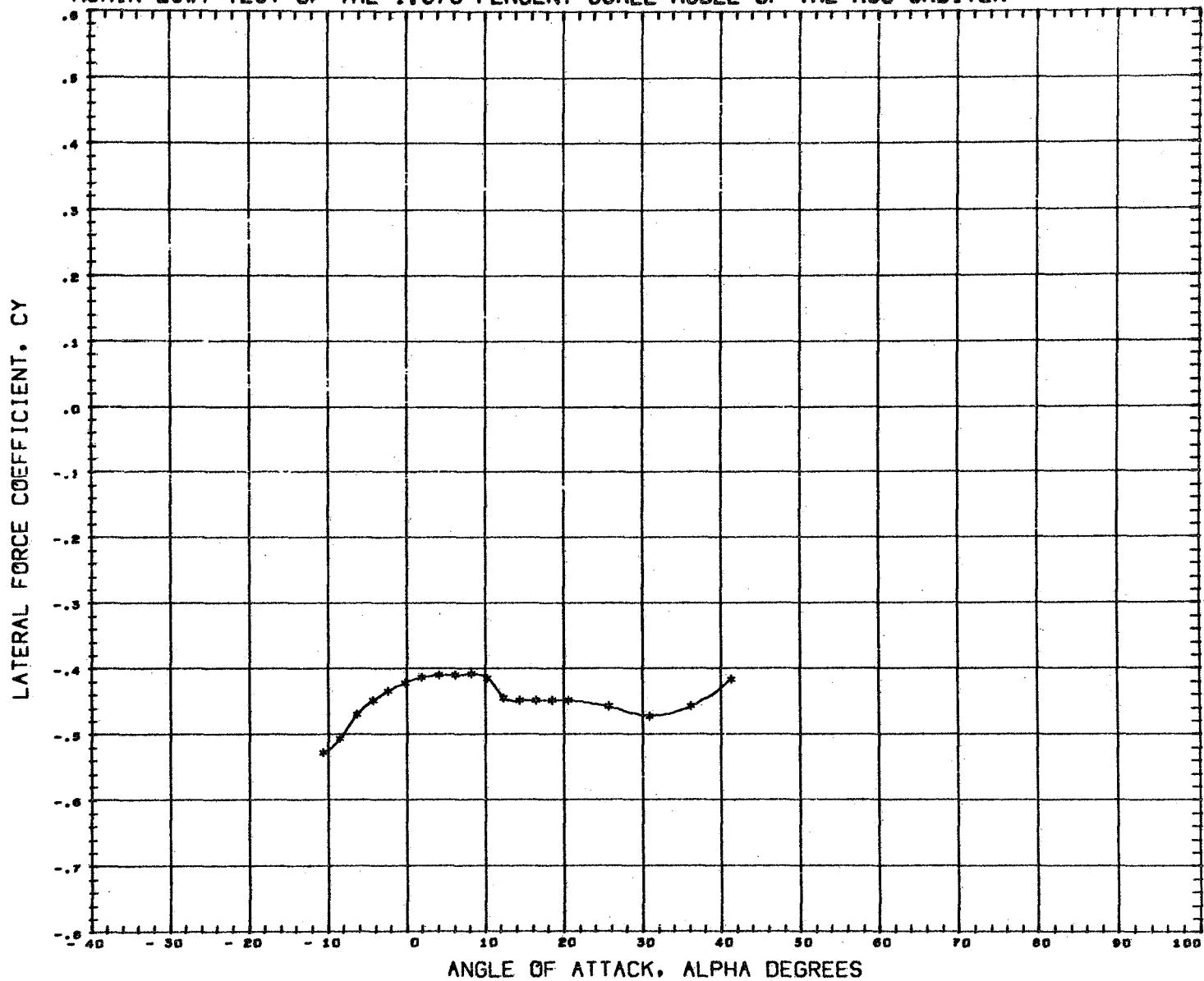


SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 10.000 HTAIL 0.000
 ELEVTR 2.000 PHI 0.000
 WINGL 12.211

REFERENCE FILE 5D/ 371001SL

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XMRP 1.58370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

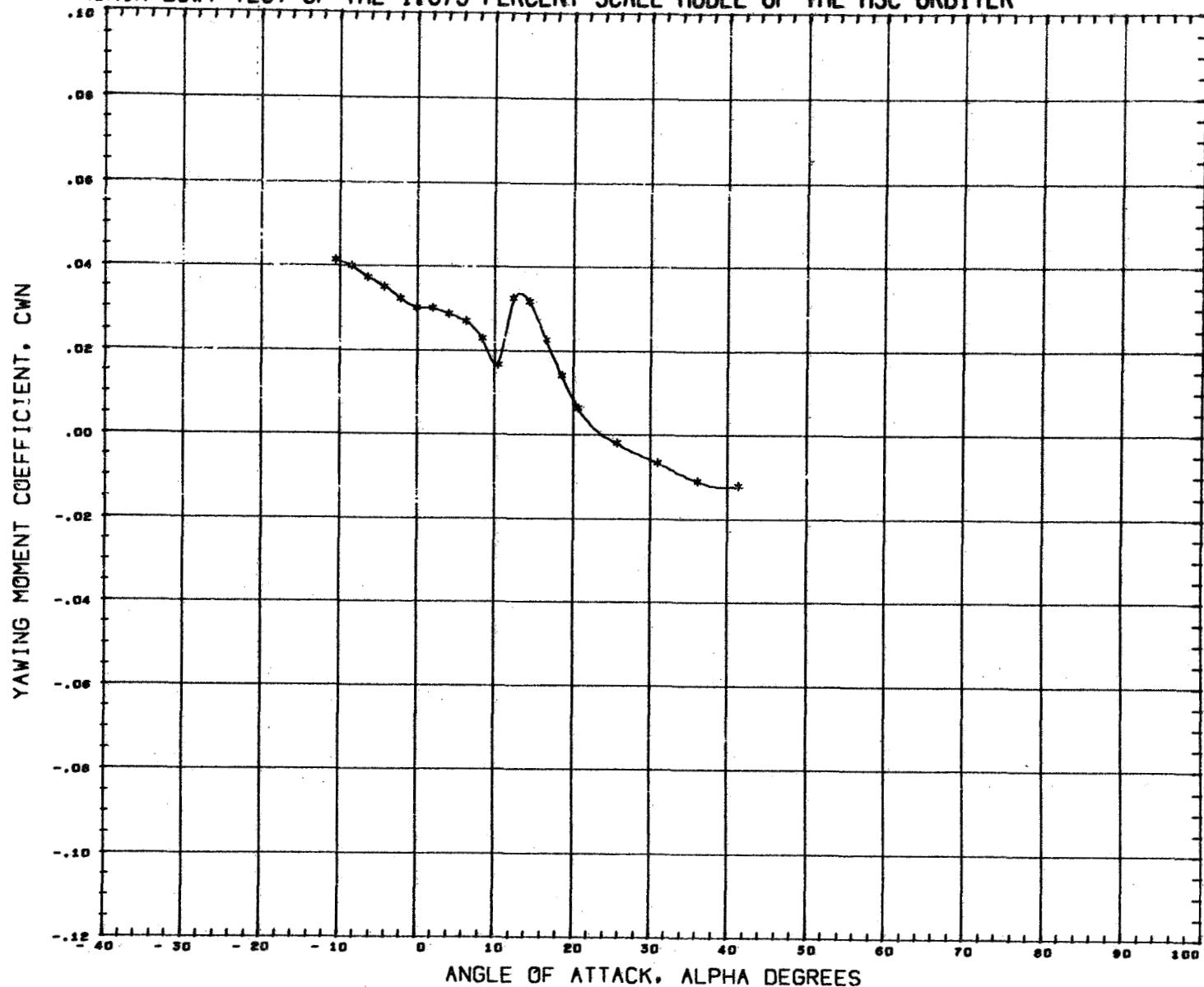


SYMBOL MACH PARAMETRIC VALUES
 * 0.250 BETA 10.000 HTAIL 0.000
 ELEVTR 2.000 PHI 0.000
 WINGL 12.211

REFERENCE FILE SCV 57100150

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁺⁰⁰ FT.
 REFB 1.50000X10⁺⁰¹ FT.
 XHRP 1.38370X10⁺⁰¹ IN.
 YHRP 0.00000X10⁺⁰⁰ IN.
 ZHRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

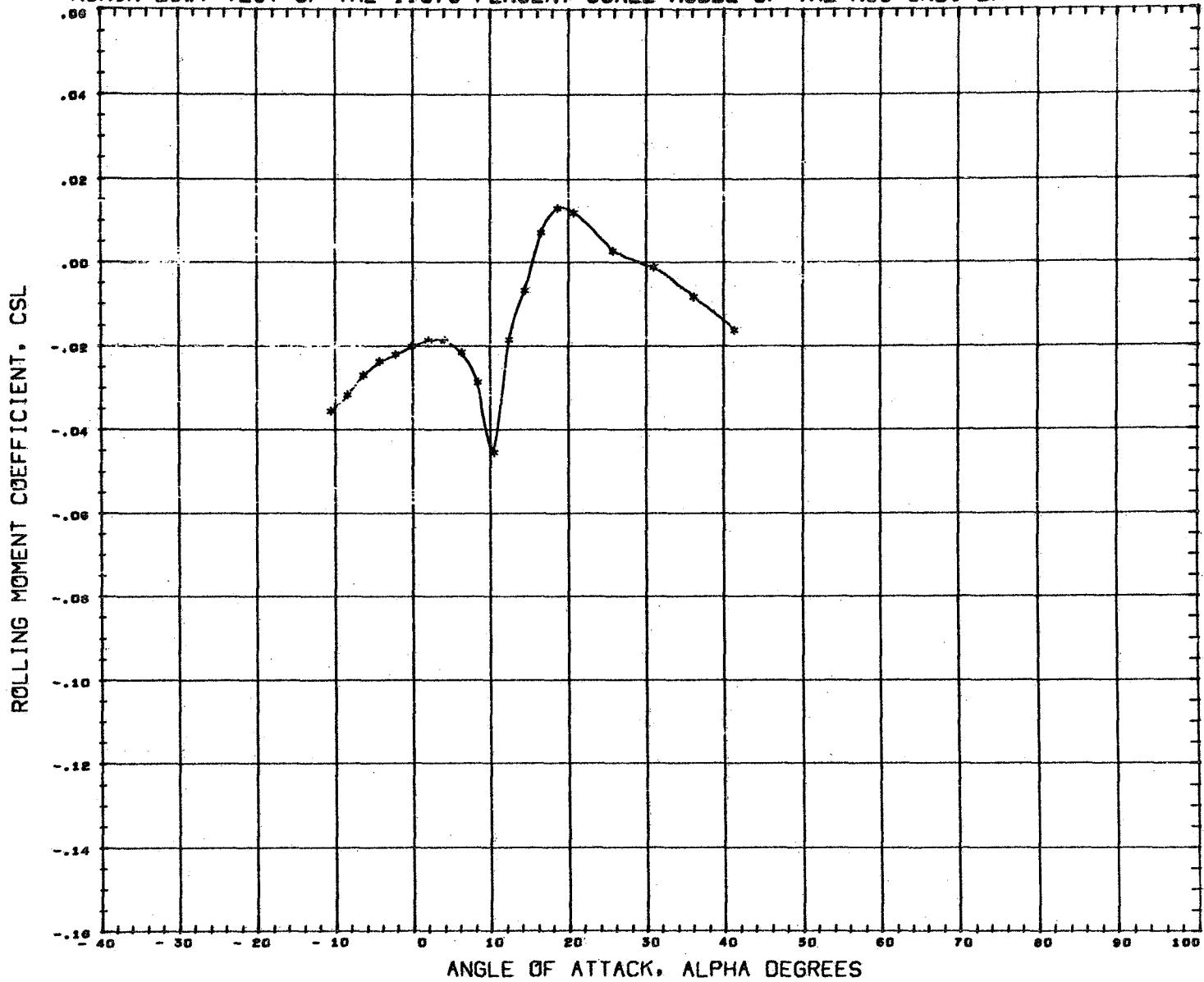


SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 10.000 HTAIL 0.000
ELEVTR 2.000 PHI 0.000
WINGL 12.211

REFERENCE FILE SDY 57100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XHRP 1.38370X10⁺⁰¹ IN.
YHRP 0.00000X10⁺⁰⁰ IN.
ZNRP 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 10.000 HTAIL 0.000
ELEVTR 2.000 PHI 0.000
WINGL 12.211

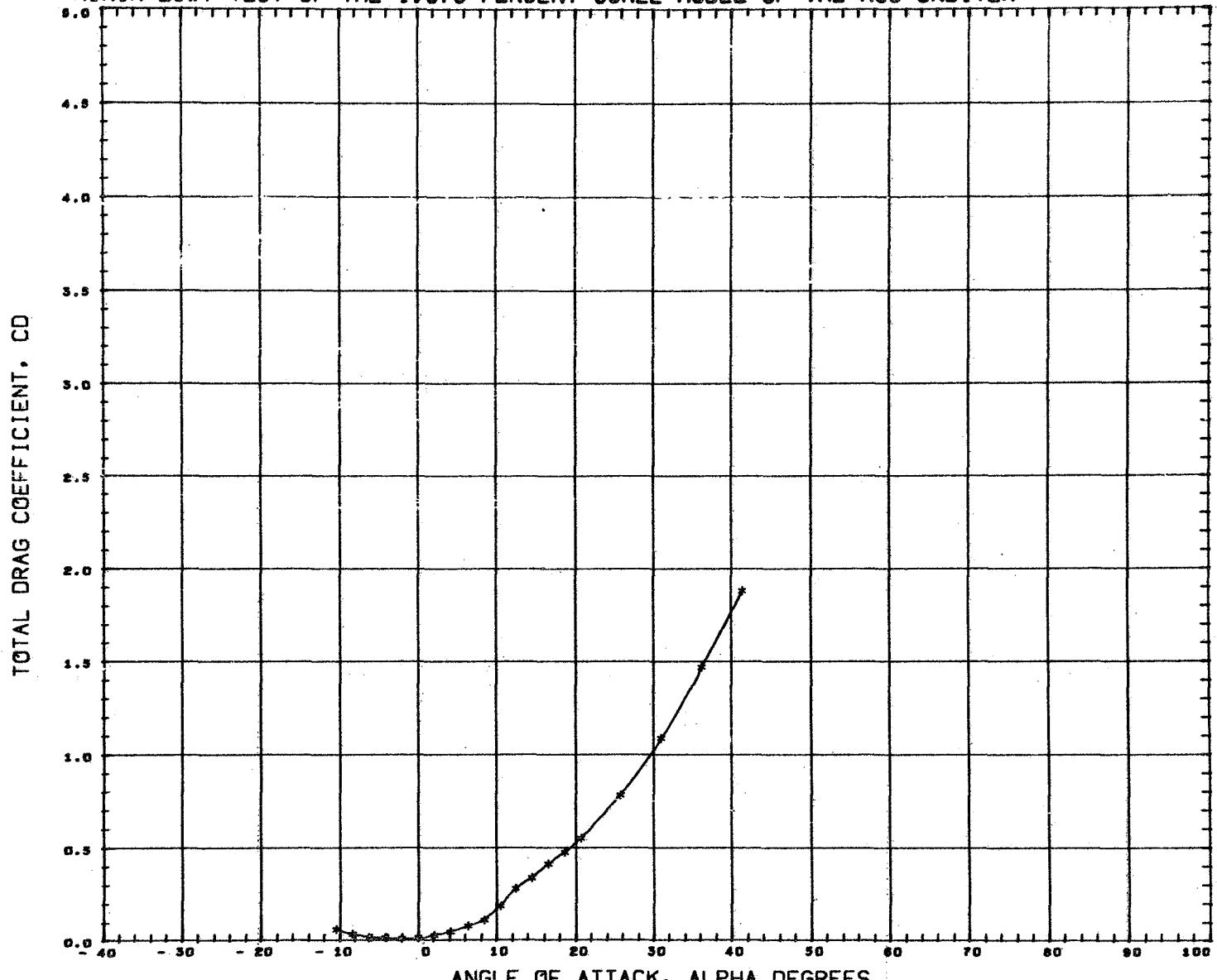
REFERENCE INFORMATION
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REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰¹ FT.
XHRF 1.38570X10⁺⁰¹ IN.
YHRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 10.000 HTAIL 0.000
ELEVTR 2.000 PHI 0.000
WINGL 12.211

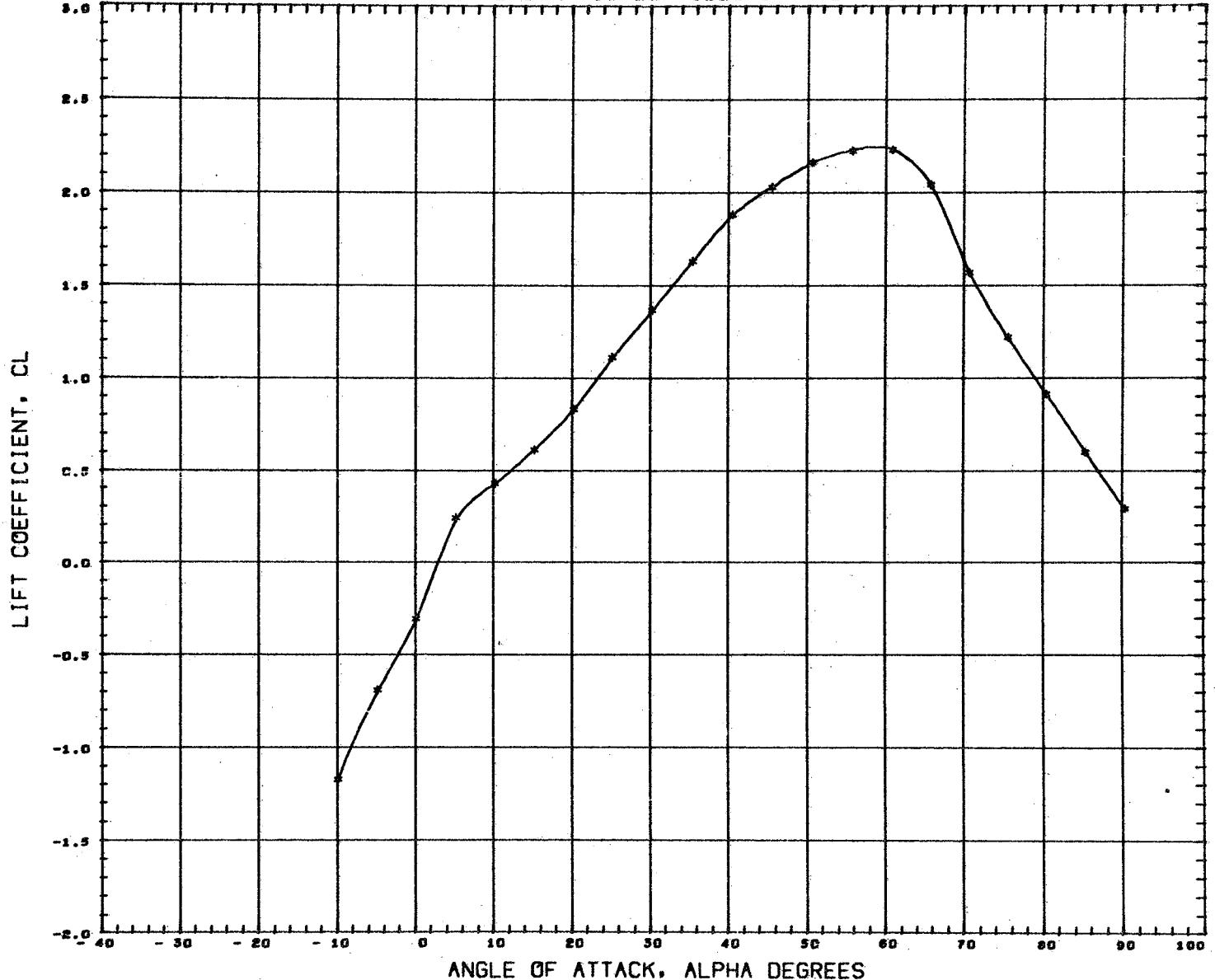
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XHRF 1.38370X10⁺⁰¹ IN.
YHRF 0.00000X10⁺⁰⁰ IN.
ZHRF 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

(RC1H04) 28 JUL 70 PAGE 238

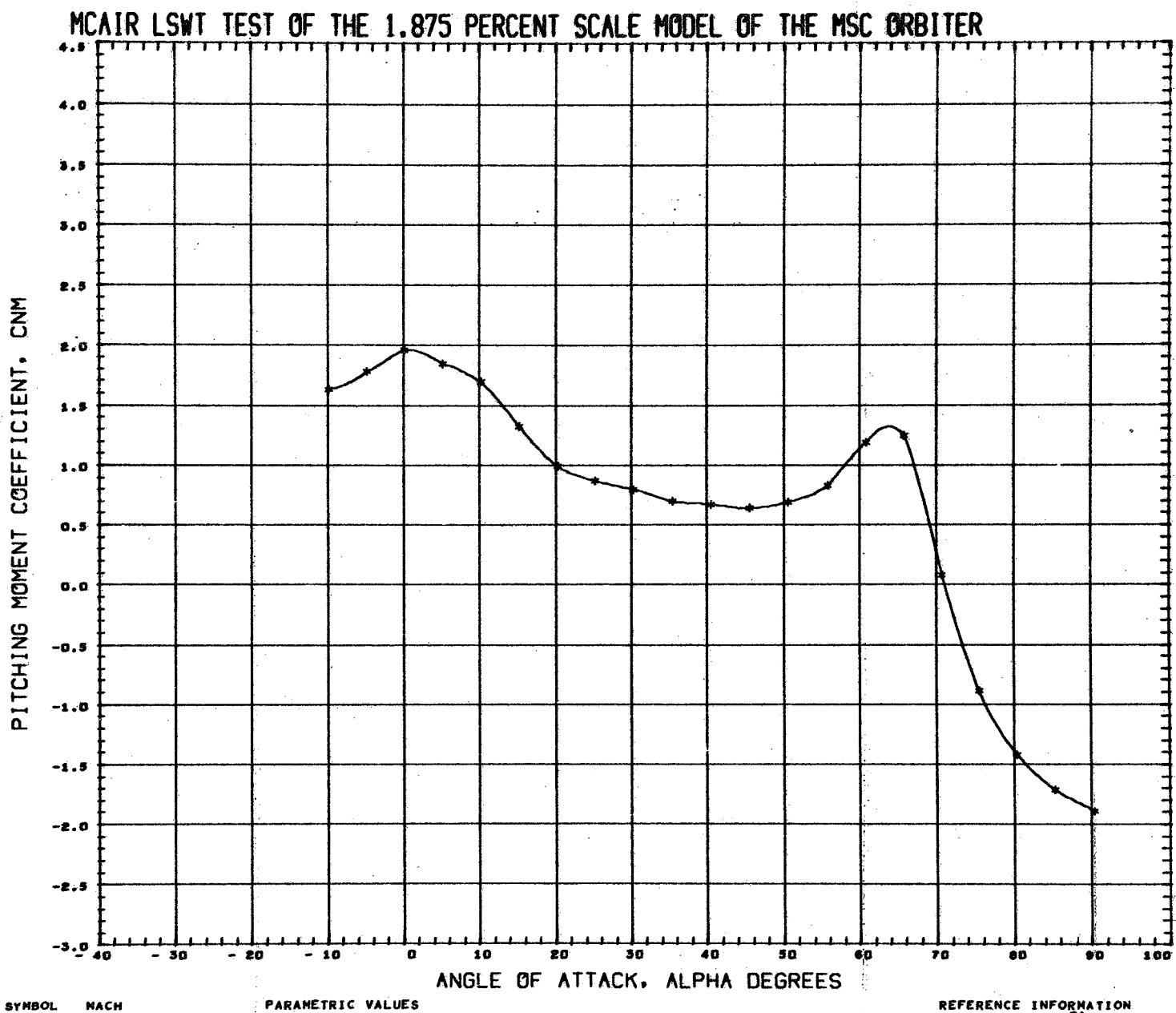
MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL HACH
* 0.170 BETA 5.000 HTAIL 0.000
ELEVTR -40.000 PHI 0.000
WINGL 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰¹ FT.
XNRP 1.38370X10⁺⁰¹ IN.
YNRP 0.00000X10⁺⁰⁰ IN.
ZNRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

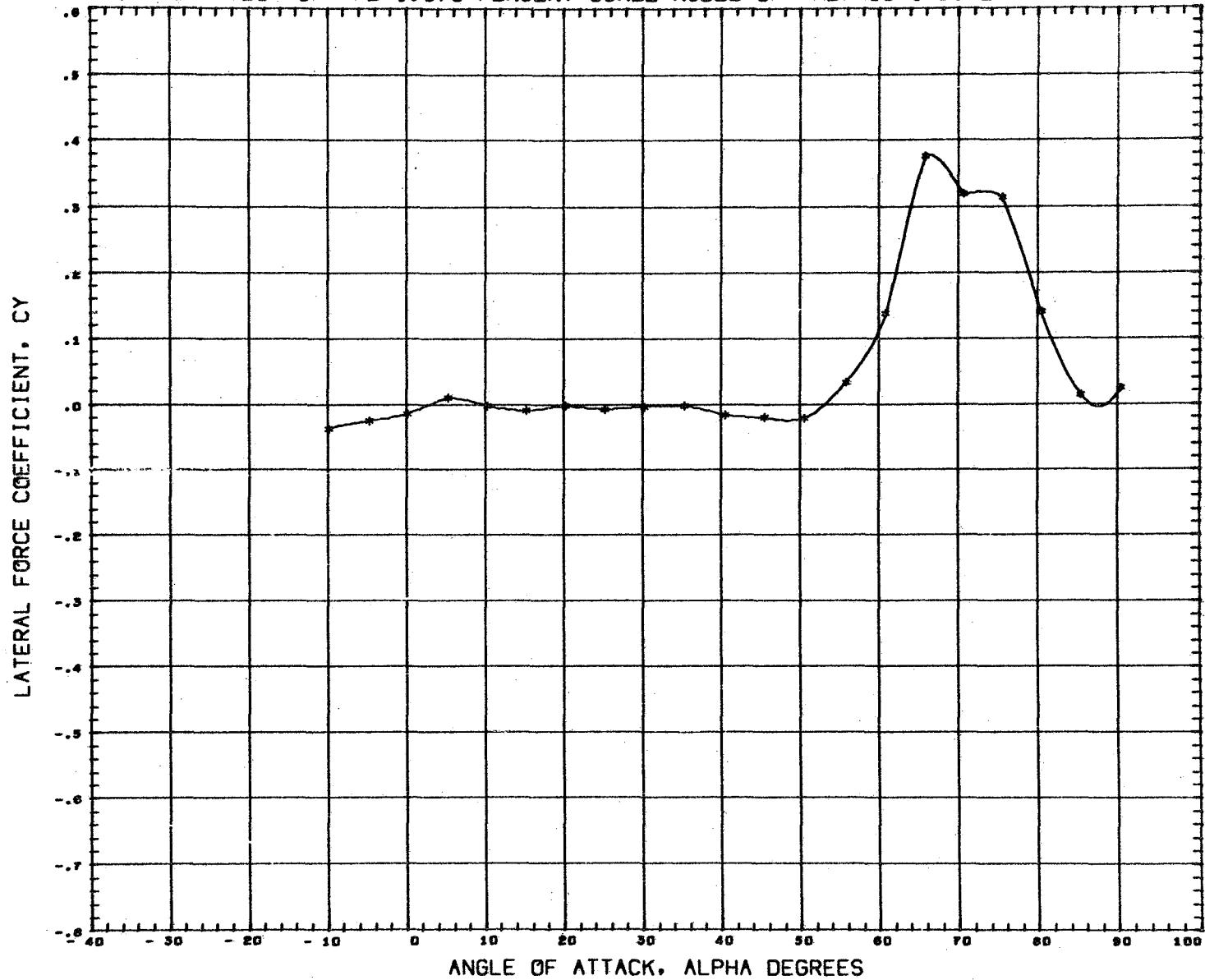


SYMBOL MACH PARAMETRIC VALUES
 * 0.170 BETA 5.000 HTAIL 0.000
 ELEVTR - 40.000 PHI 0.000
 WINGL 12.211

REFERENCE FILE SDY 37100150.

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ Sq.FT.
 REFL 2.31700X10⁻⁰⁰ FT.
 REFB 1.50000X10⁺⁰¹ FT.
 XHRP 1.38370X10⁺⁰¹ FT.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁺⁰⁰ IN.
 SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

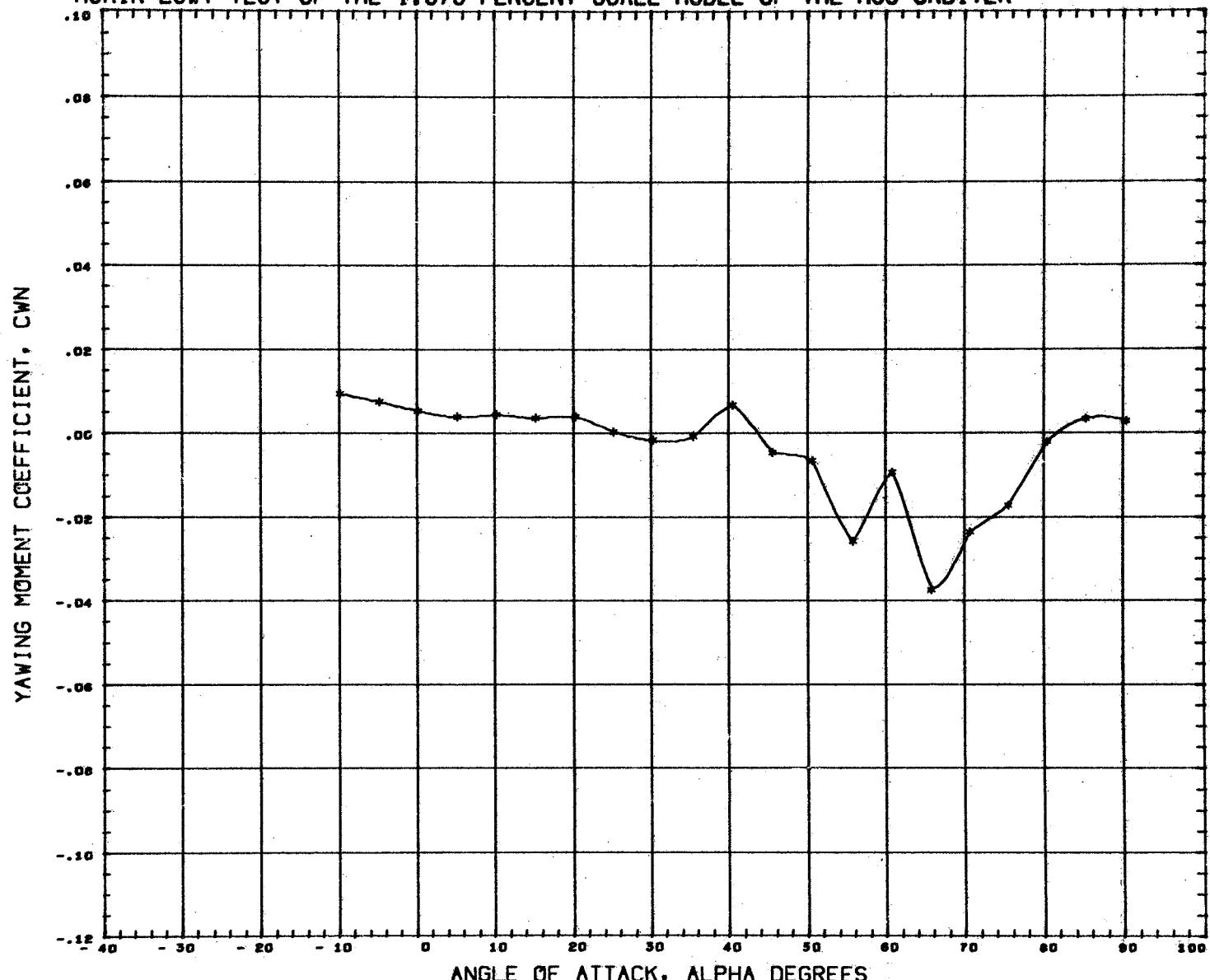


SYMBOL MACH PARAMETRIC VALUES
 * 0.170 BETA 5.000 HTAIL 0.000
 ELEVTR - 40.000 PHI 0.000
 WINGL 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XMRF 1.38370X10⁺⁰¹ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZMRF 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

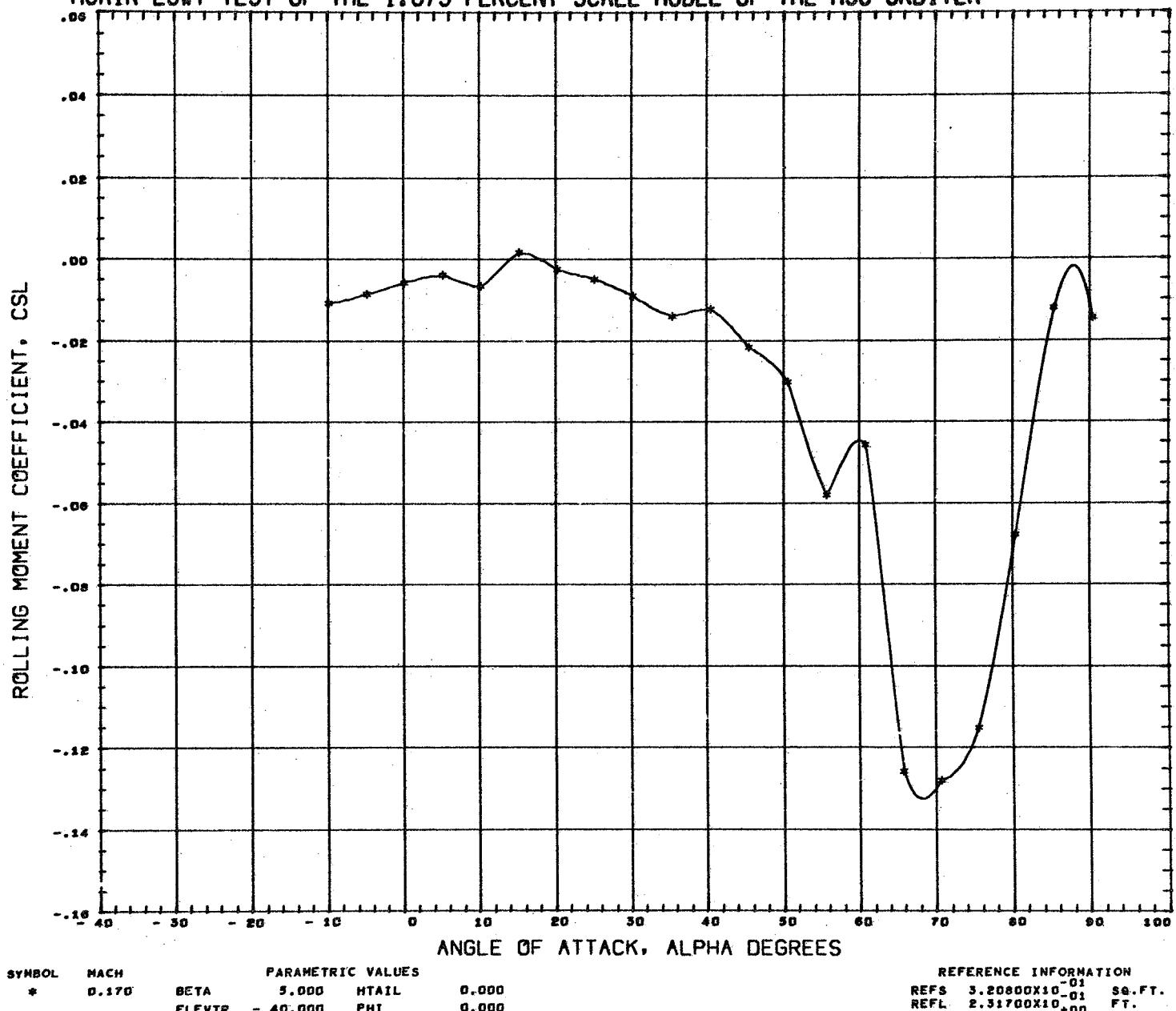


PARAMETRIC VALUES	
SYMBOL	MACH
*	0.170
BETA	5.000
ELEVTR	-40.000
WINGL	12.211
HTAIL	0.000
PHI	0.000

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION	
REFS	3.20800×10^{-01}
REFL	2.31700×10^{-01}
REFD	$1.50000 \times 10^{+00}$
XHRP	$1.36370 \times 10^{+01}$
YHRP	$0.00000 \times 10^{+00}$
ZHRP	$2.40000 \times 10^{+00}$
SCALE	1.67900×10^{-02}
	SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 5.000 HTAIL 0.000
ELEVTR -40.000 PHI 0.000
WINGL 12.211

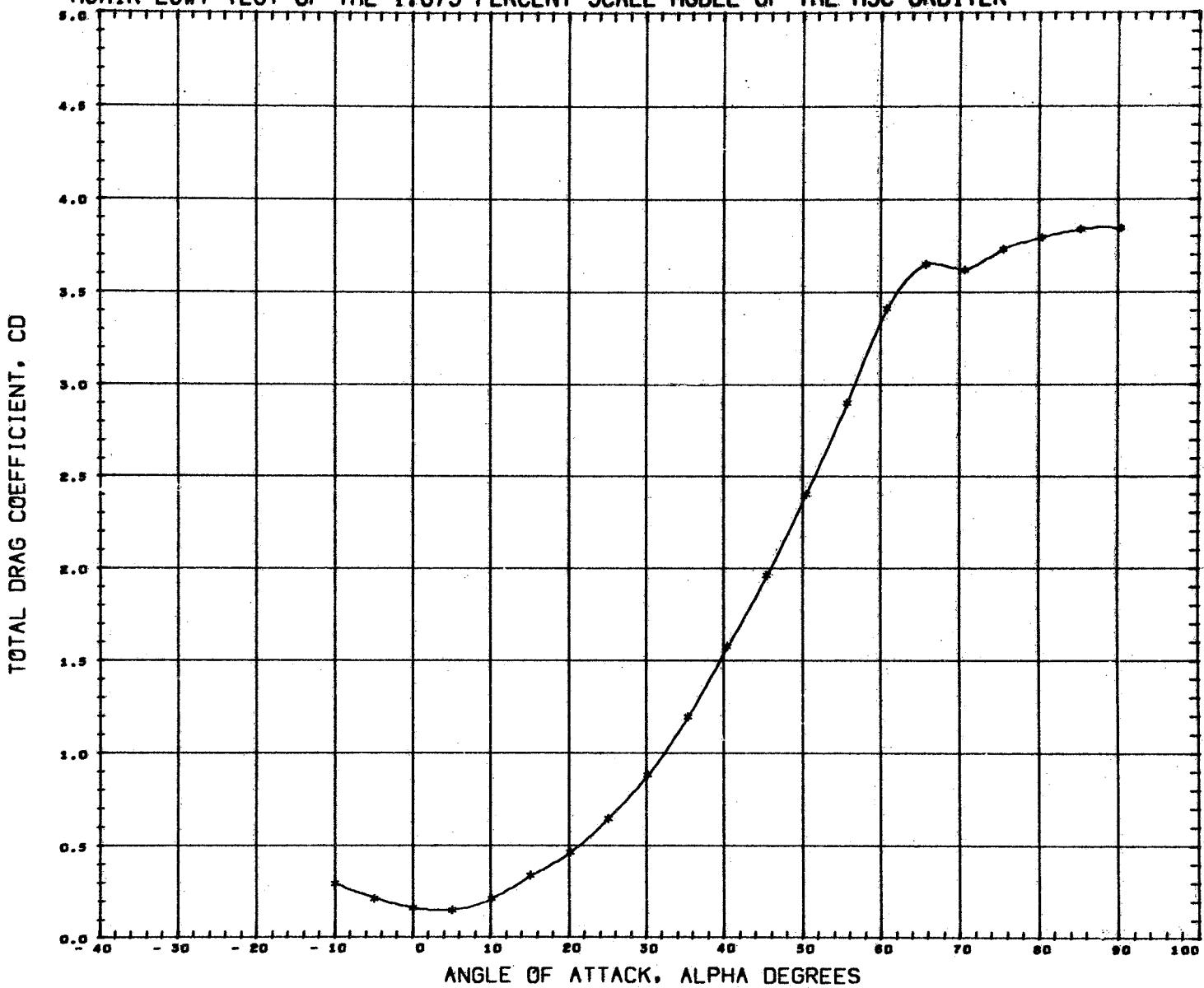
REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XMRP 1.38370X10⁻⁰⁰ IN.
YMRP 0.00000X10⁻⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

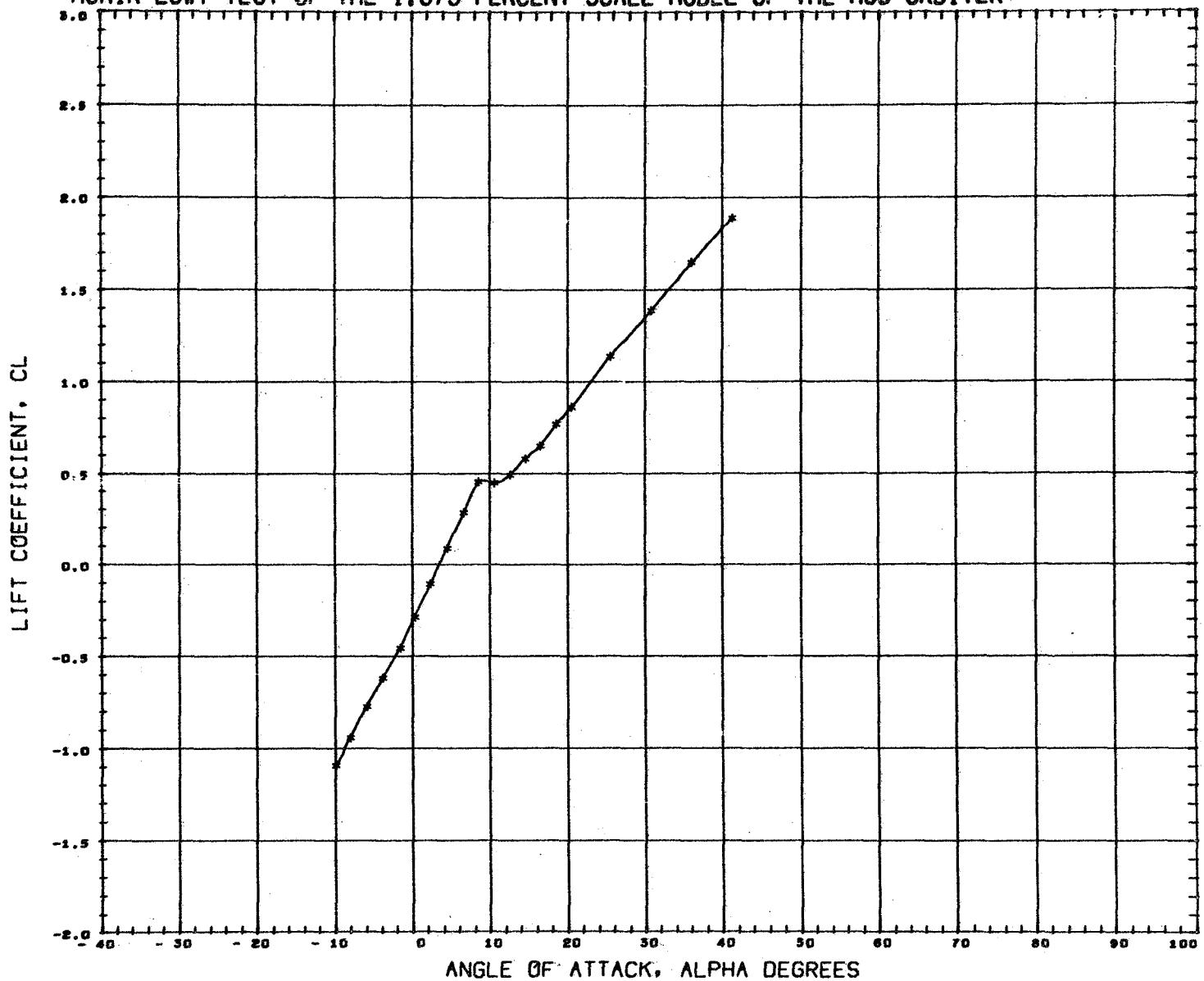


SYMBOL MACH PARAMETRIC VALUES
* 0.170. BETA 5.000. HTAIL 0.000
ELEVTR - 40.000 PHI 0.000
WINGL 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
 * 0.250 BETA 5.000 HTAIL 0.000
 ELEVTR - 40.000 PHI 0.000
 WINGL 12.211

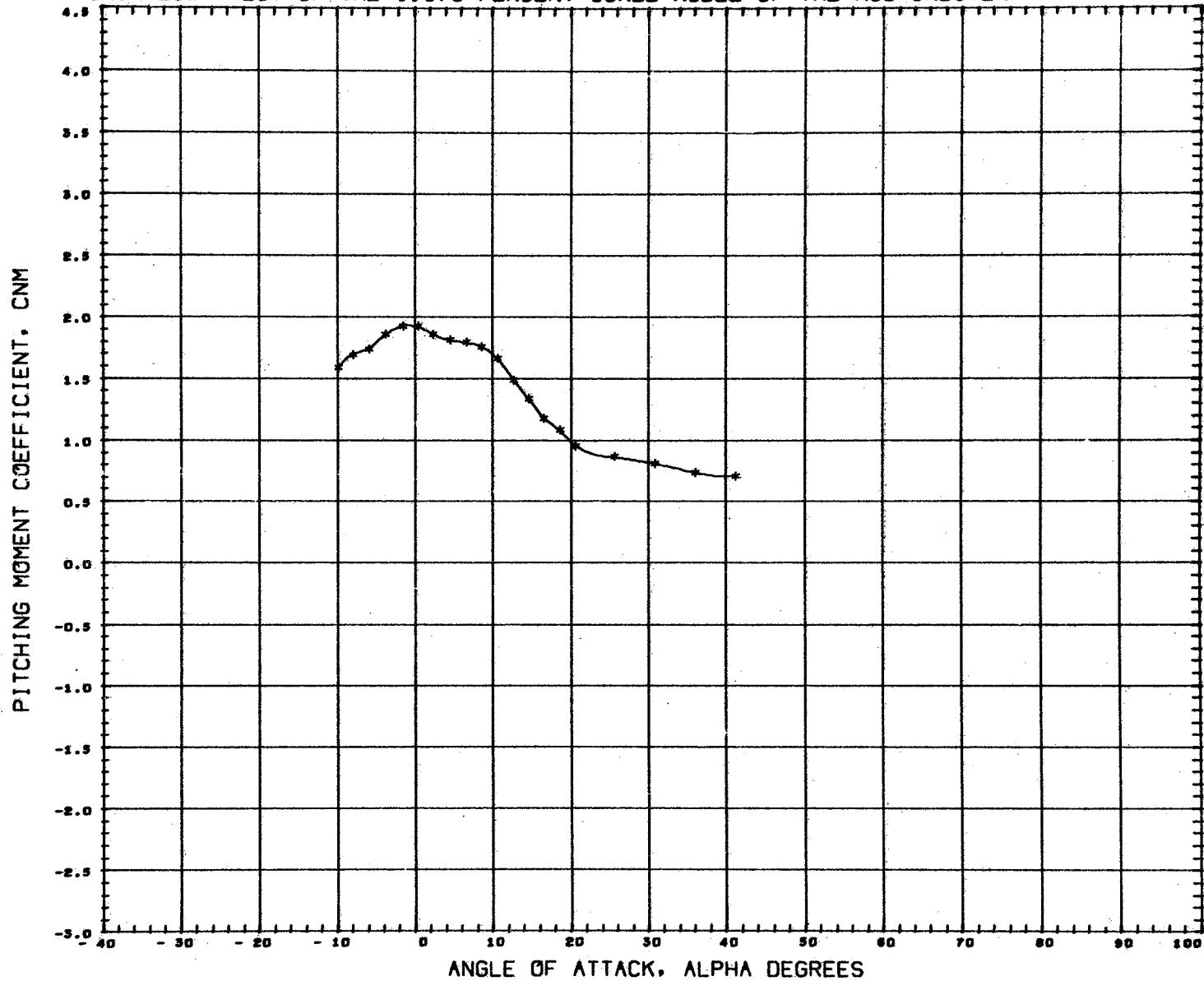
REFERENCE INFORMATION
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 REFL: 2.31700X10⁻⁰¹ FT.
 REFB: 1.50000X10⁺⁰⁰ FT.
 XHRF: 1.38370X10⁻⁰¹ IN.
 YHRF: 0.00000X10⁺⁰⁰ IN.
 ZHRF: 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

(RC1H14) 28 JUL 70 PAGE 245

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

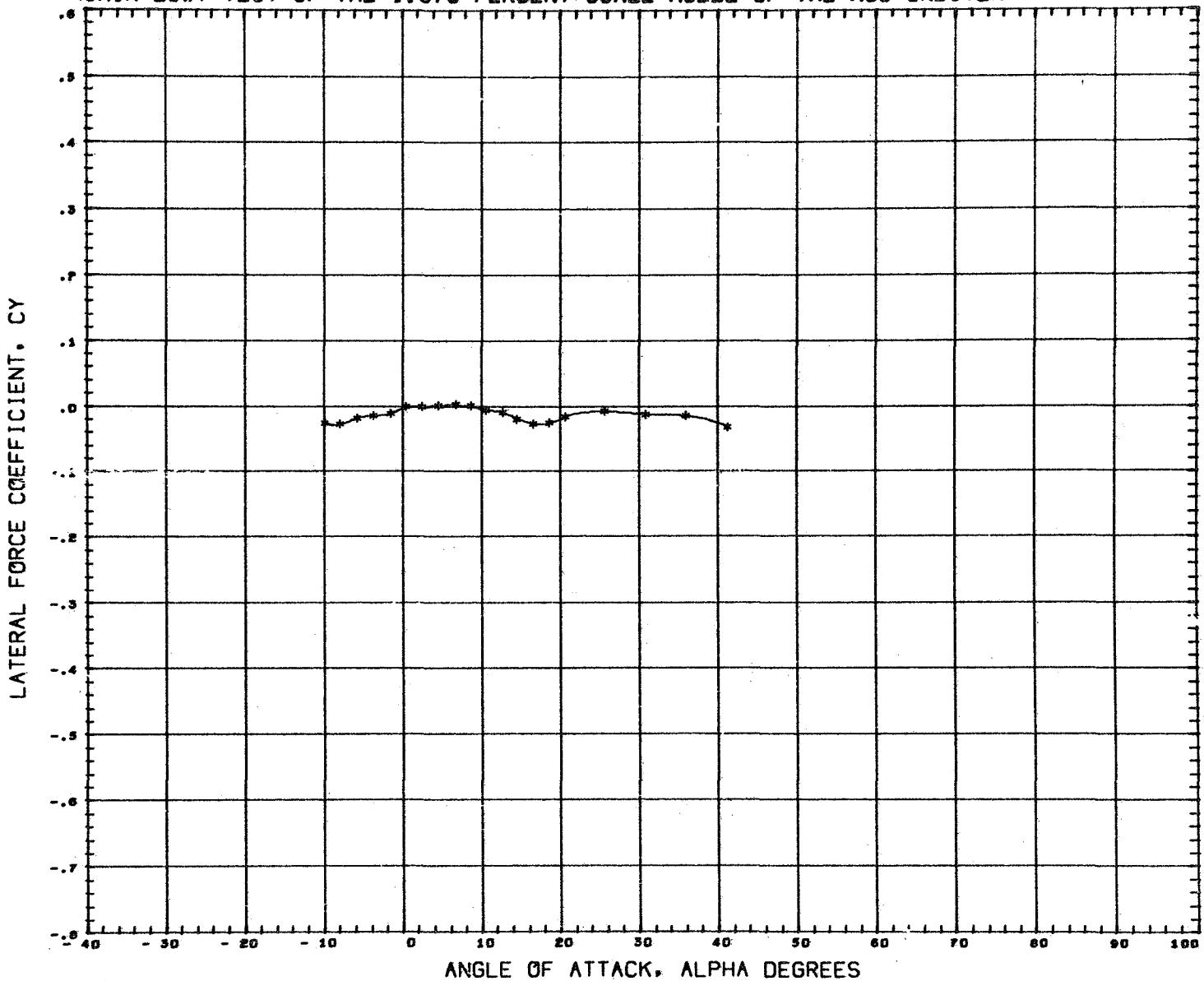


SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 5.000 HTAIL 0.000
ELEVTR -40.000 PHI 0.000
WINGL 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XMRP 1.38370X10⁻⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



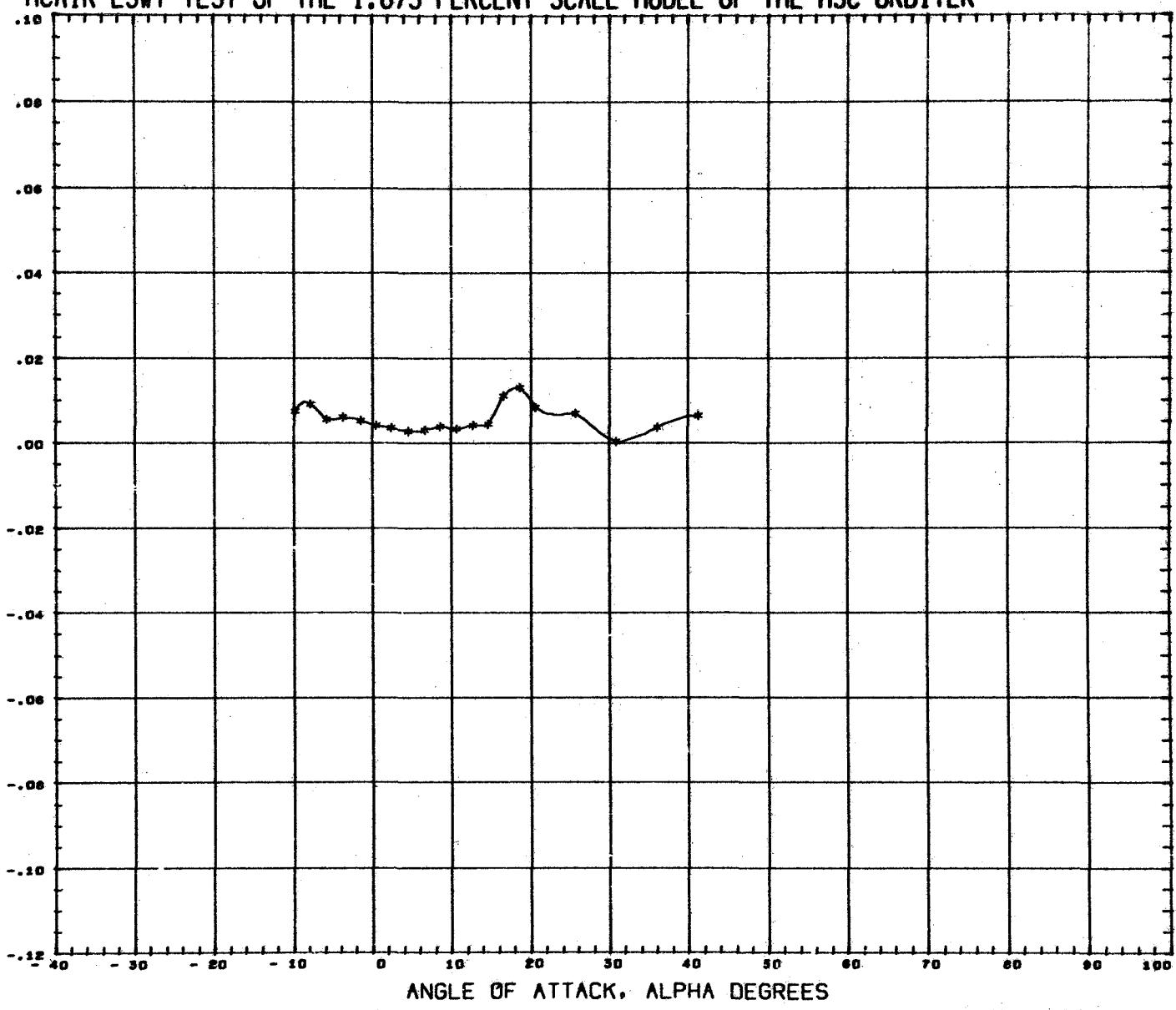
SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 5.000 HTAIL 0.000
ELEVTR -40.000 PHI 0.000
WINGL 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20000X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁻⁰¹ FT.
XNRP 1.38370X10⁻⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, CMN



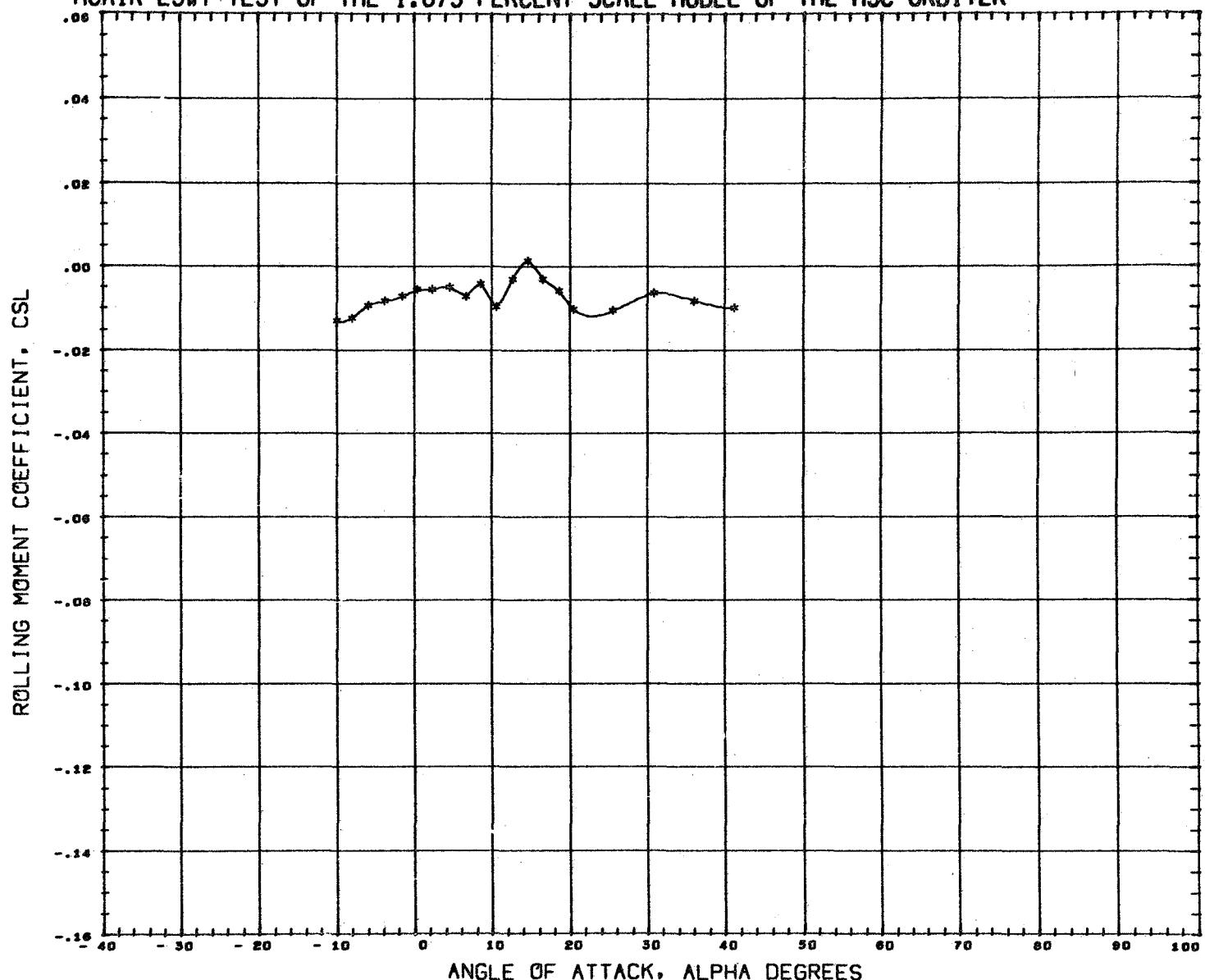
ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL MACH PARAMETRIC VALUES
● 0.250 BETA 5.000 HTAIL 0.000
ELEVTR -40.000 PHI 0.000
WINGL 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20000X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰¹ FT.
XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 5.000 HTAIL 0.000
ELEVTR - 40.000 PHI 0.000
WINGL 12.211

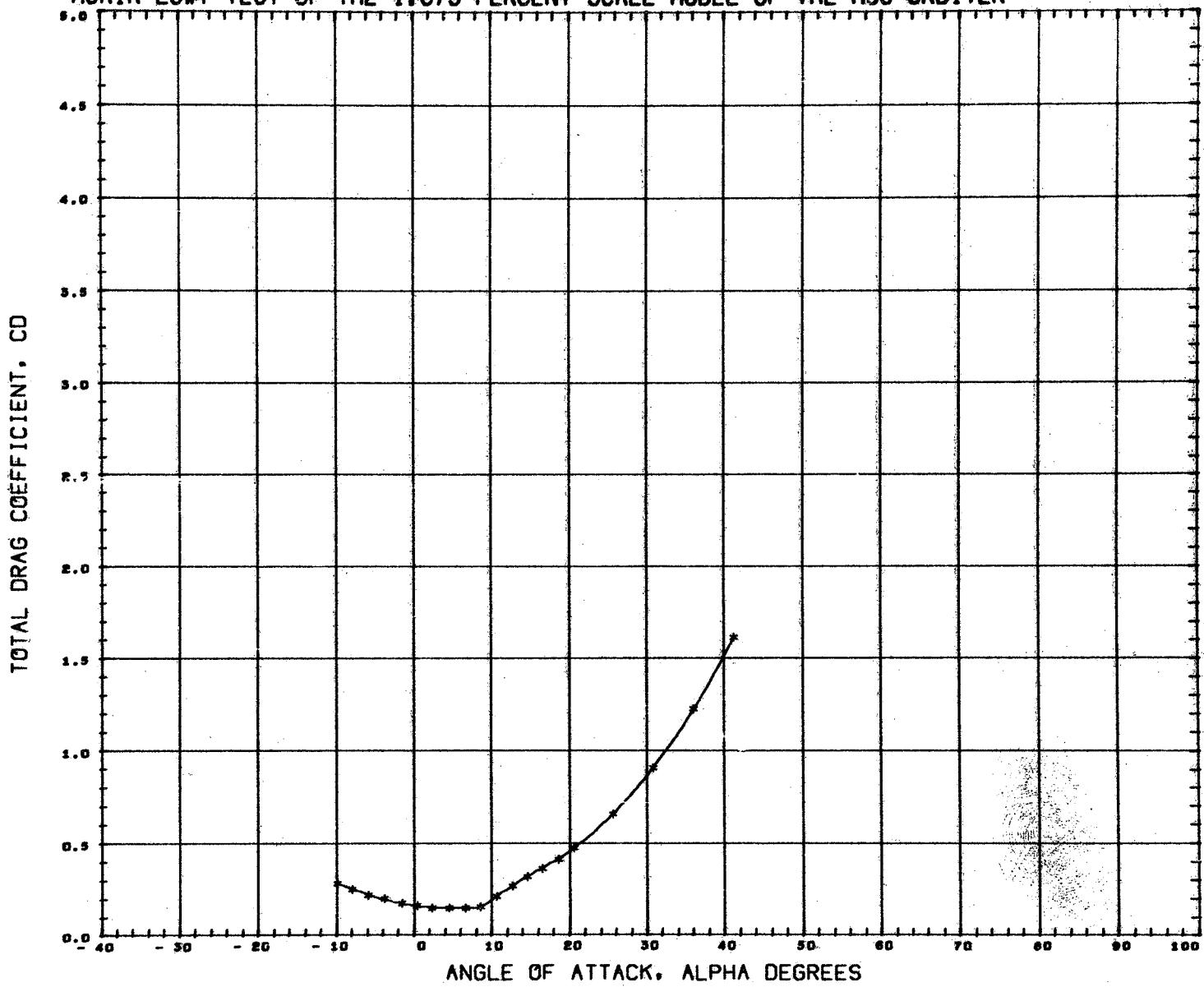
REFERENCE INFORMATION
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REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰¹ FT.
XHRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁻⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100150

LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 5.000 HTAIL 0.000
ELEVTR -40.000 PHI 0.000
WINGL 12.211

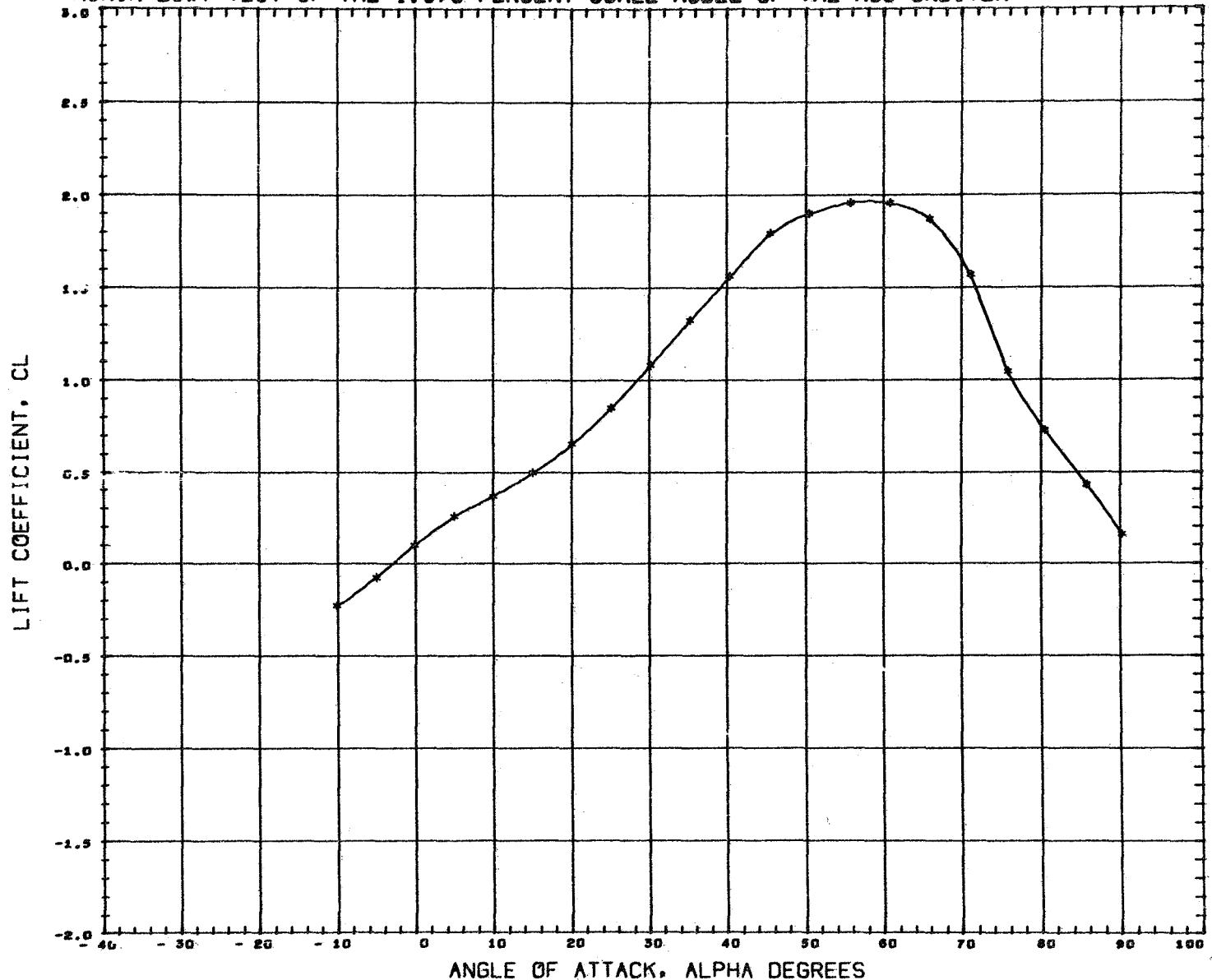
REFERENCE FILE SDY 37100150

LSWT 223 1.875 PC MOD S5 ORB. B1H1513V3W1

(RC1H14) 28 JUL 70 PAGE 250

REFERENCE INFORMATION
REFS 3.20000X10⁻⁰² SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XMRP 1.38370X10⁻⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 9.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 0.000

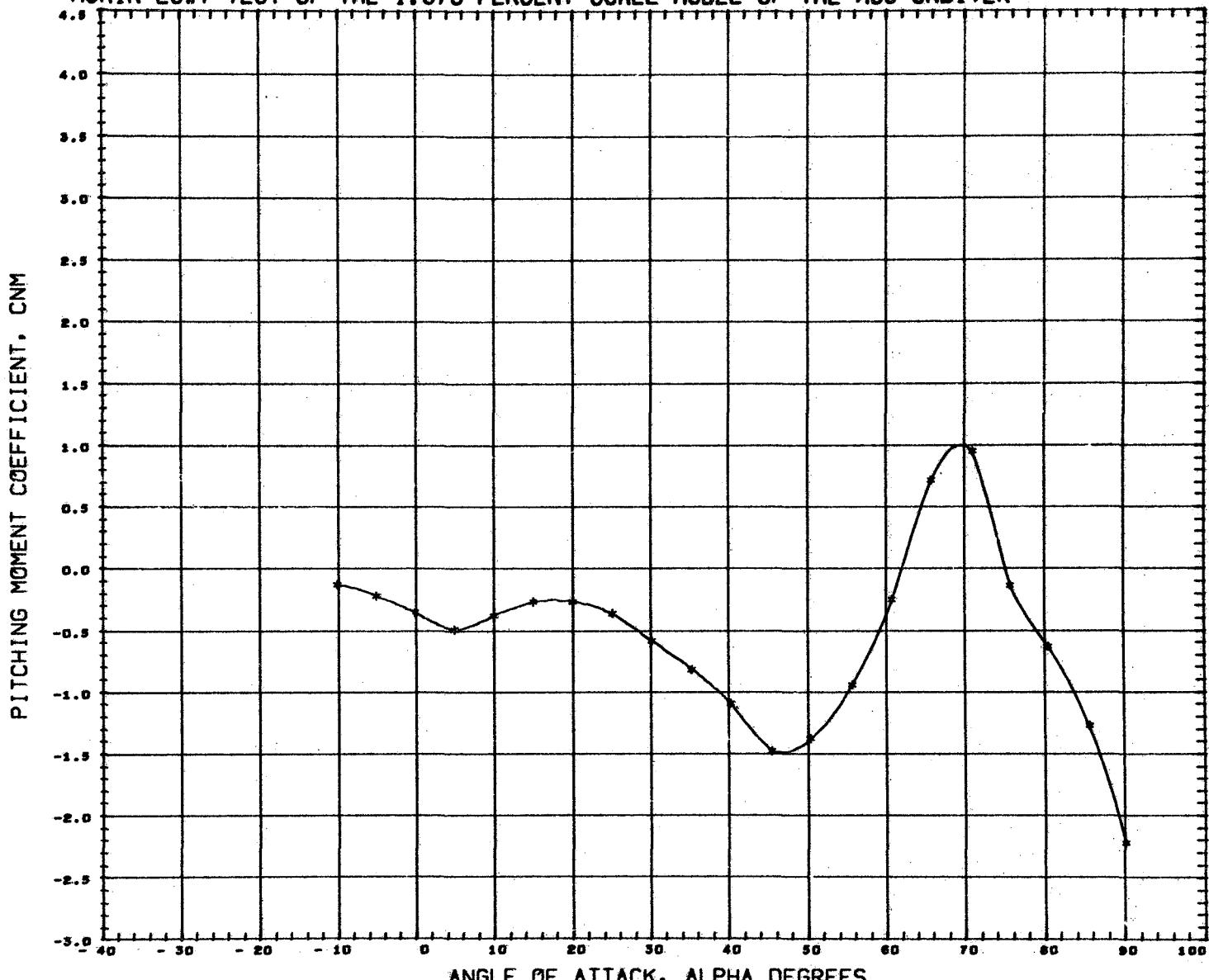
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
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REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XMRP 1.38570X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁺⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6V3

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
 * 0.170 BETA 5.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 0.000

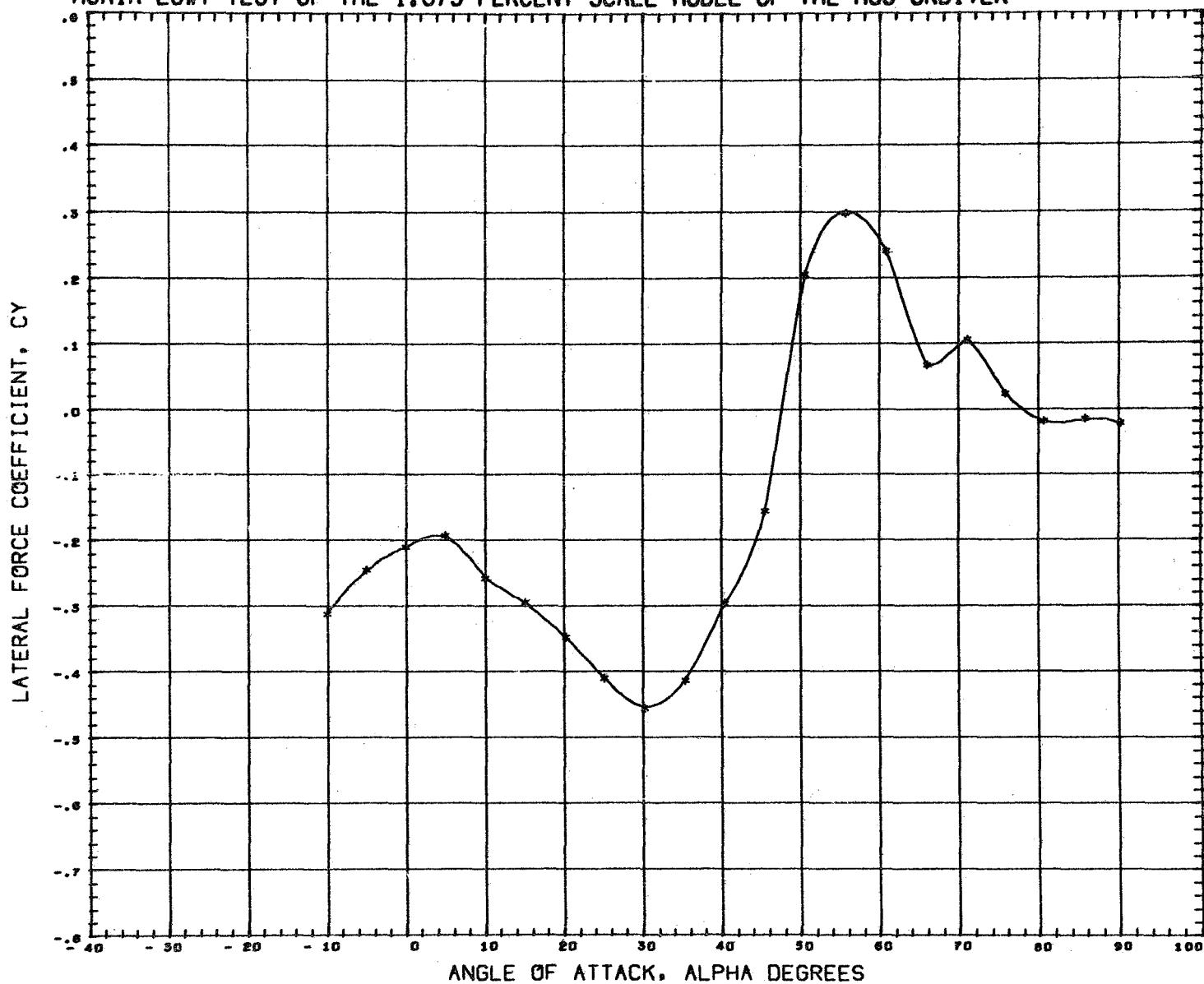
REFERENCE FILE SDY 37100150

LSWT 223 1.875 PC MOD S5 ORB. B1H6V3

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ IN.
 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XHRP 1.38370X10⁺⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 5.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 0.000

REFERENCE FILE SDY 37100150

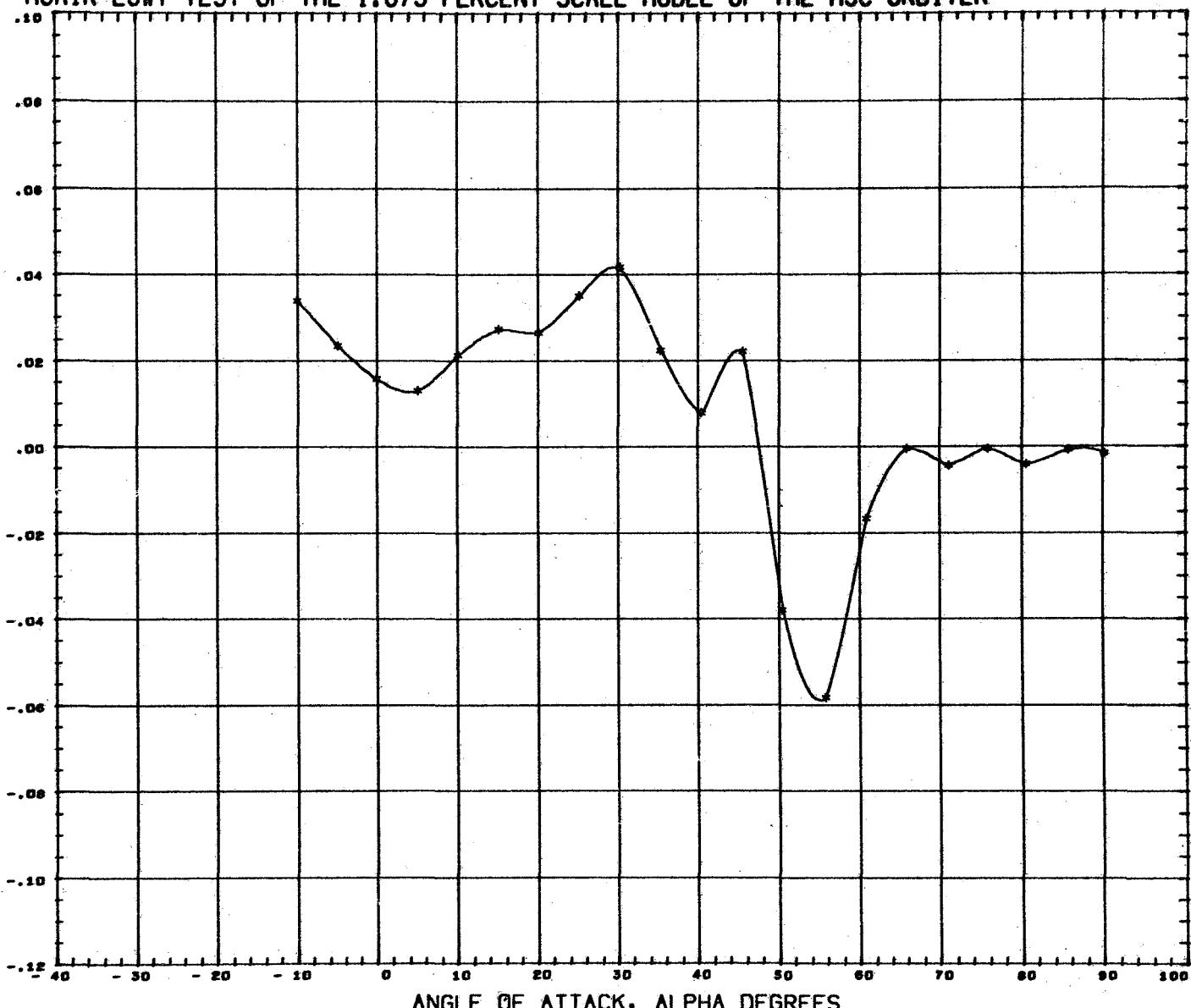
REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XNRP 1.38370X10⁺⁰¹ IN.
YNRP 0.00000X10⁺⁰⁰ IN.
ZNRP 2.46000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6V3

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, CMN



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES		
*	0.170	BETA	5.000	HTAIL 0.000
		ELEVTR	0.000	PHI 0.000
		WINGL	0.000	

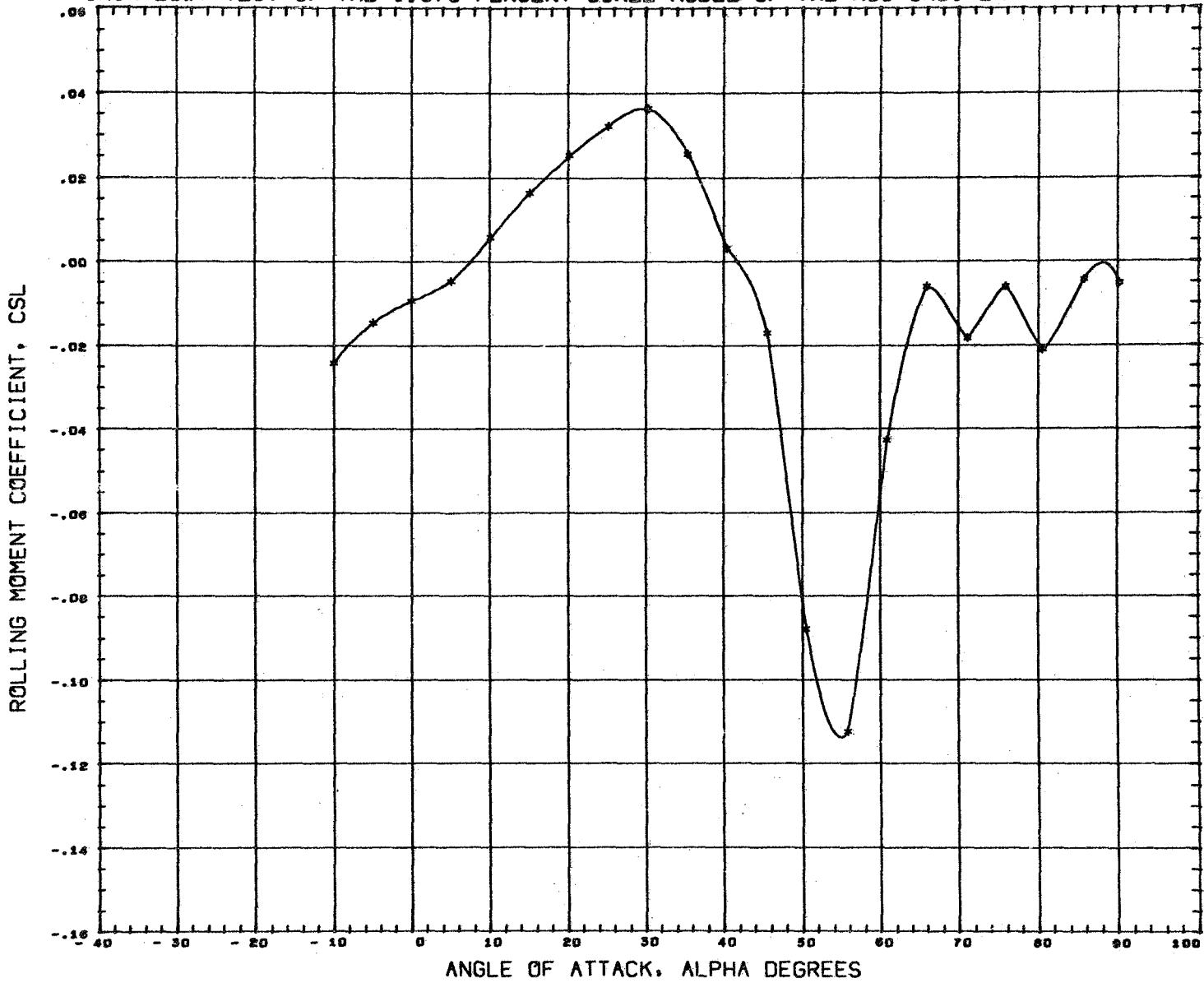
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION		
REFS	3.20800X10 ⁻⁰¹	SQ.FT.
REFL	2.31700X10 ⁺⁰⁰	FT.
REFB	1.50000X10 ⁺⁰¹	FT.
XHRP	1.38370X10 ⁺⁰⁰	IN.
YHRP	0.00000X10 ⁺⁰⁰	IN.
ZHRP	2.40000X10 ⁺⁰⁰	IN.
SCALE	1.87500X10 ⁻⁰²	SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6V3

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 5.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 0.000

REFERENCE FILE SDY 37100150

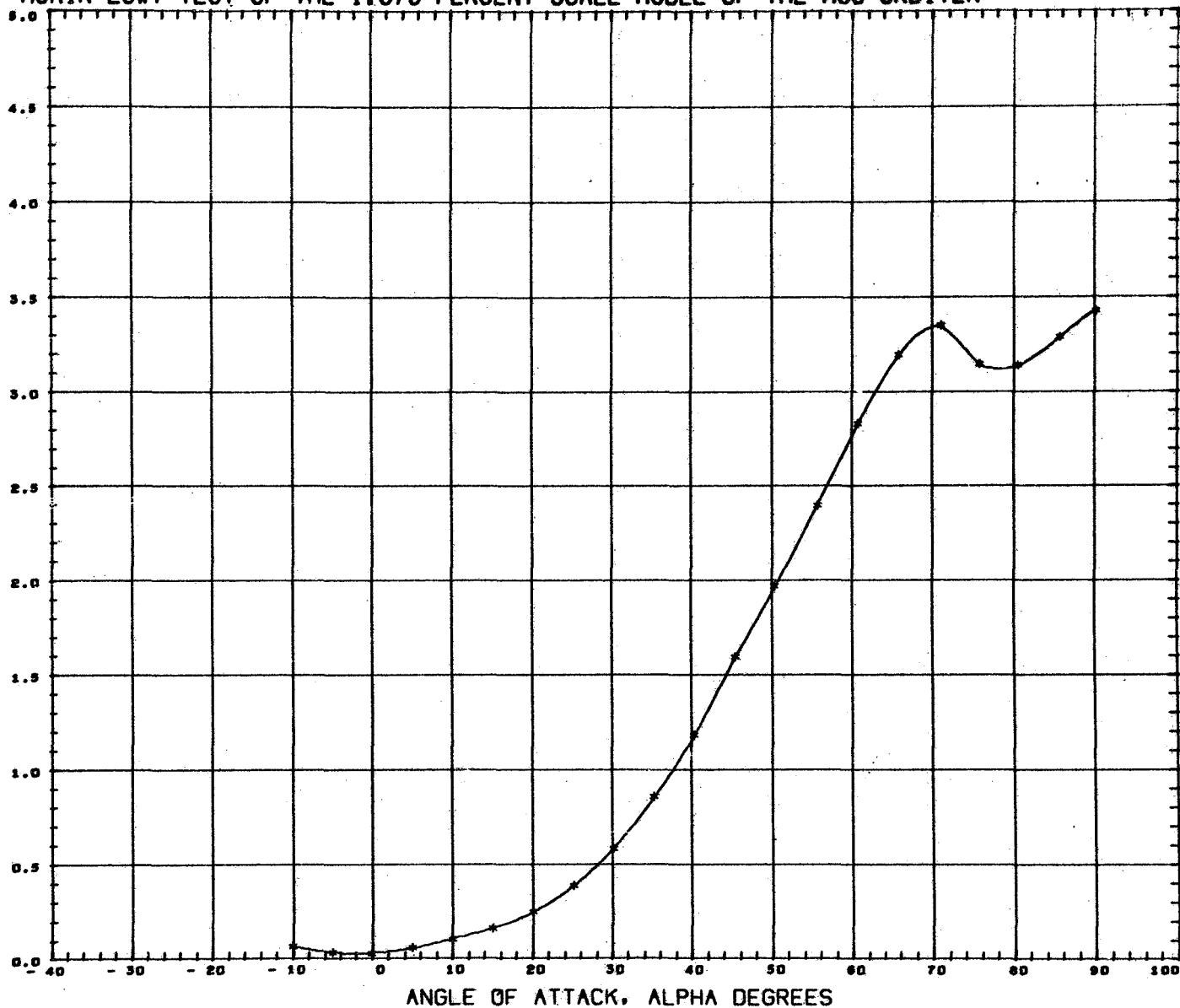
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REFS 3.00000X10⁻⁰¹ IN.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰¹ FT.
XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6V3

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

TOTAL DRAG COEFFICIENT, CD



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	5.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	0.000		

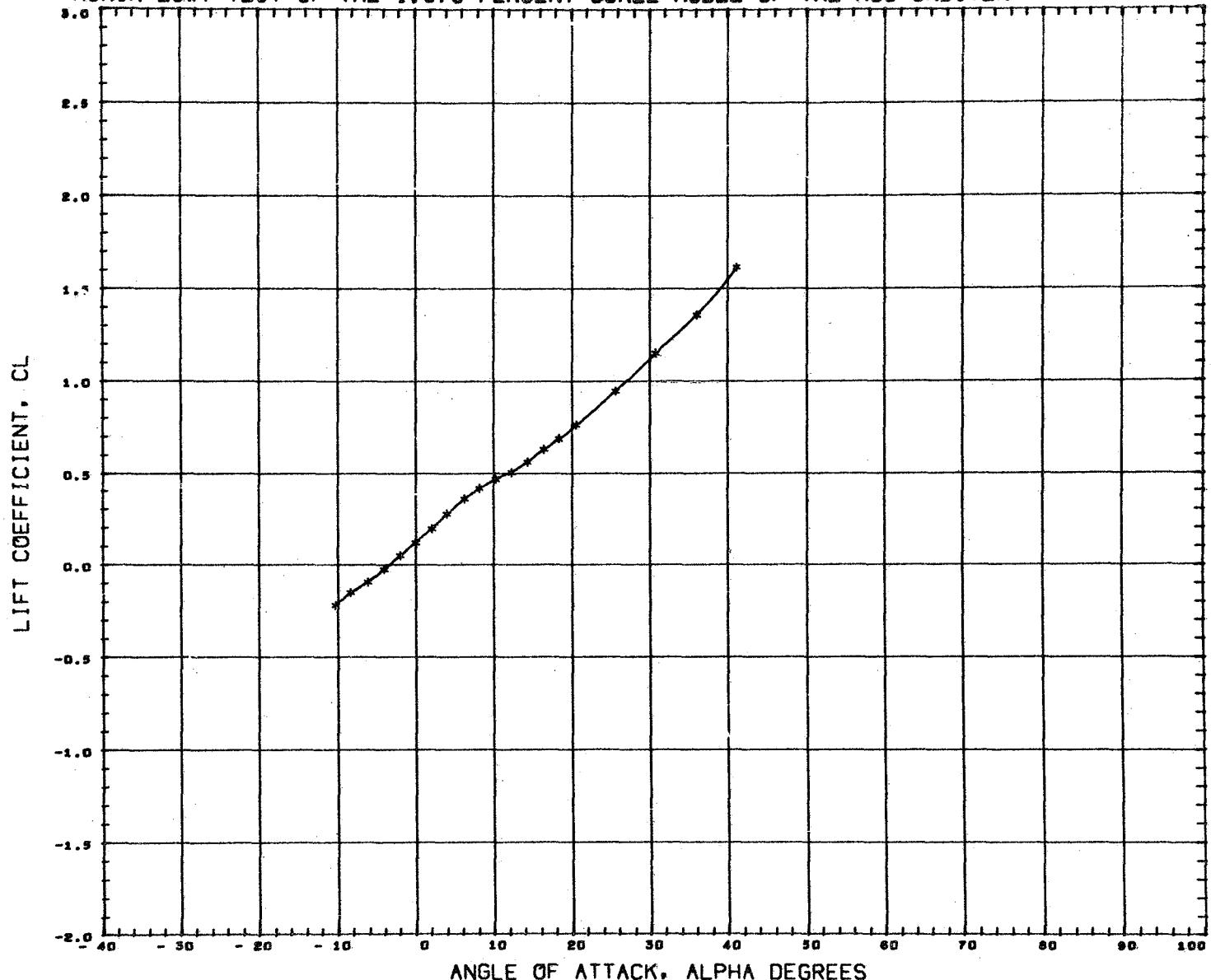
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION		
REFS	3.20800×10^{-01}	sq. ft.
REFL	$2.31700 \times 10^{+00}$	ft.
REFB	$1.50000 \times 10^{+01}$	ft.
XNRP	$1.38370 \times 10^{+01}$	in.
YNRP	$0.00000 \times 10^{+00}$	in.
ZNRP	$2.40000 \times 10^{+00}$	in.
SCALE	1.87500×10^{-02}	SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6V3

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 10.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 0.000

REFERENCE FILE SDY 57100150

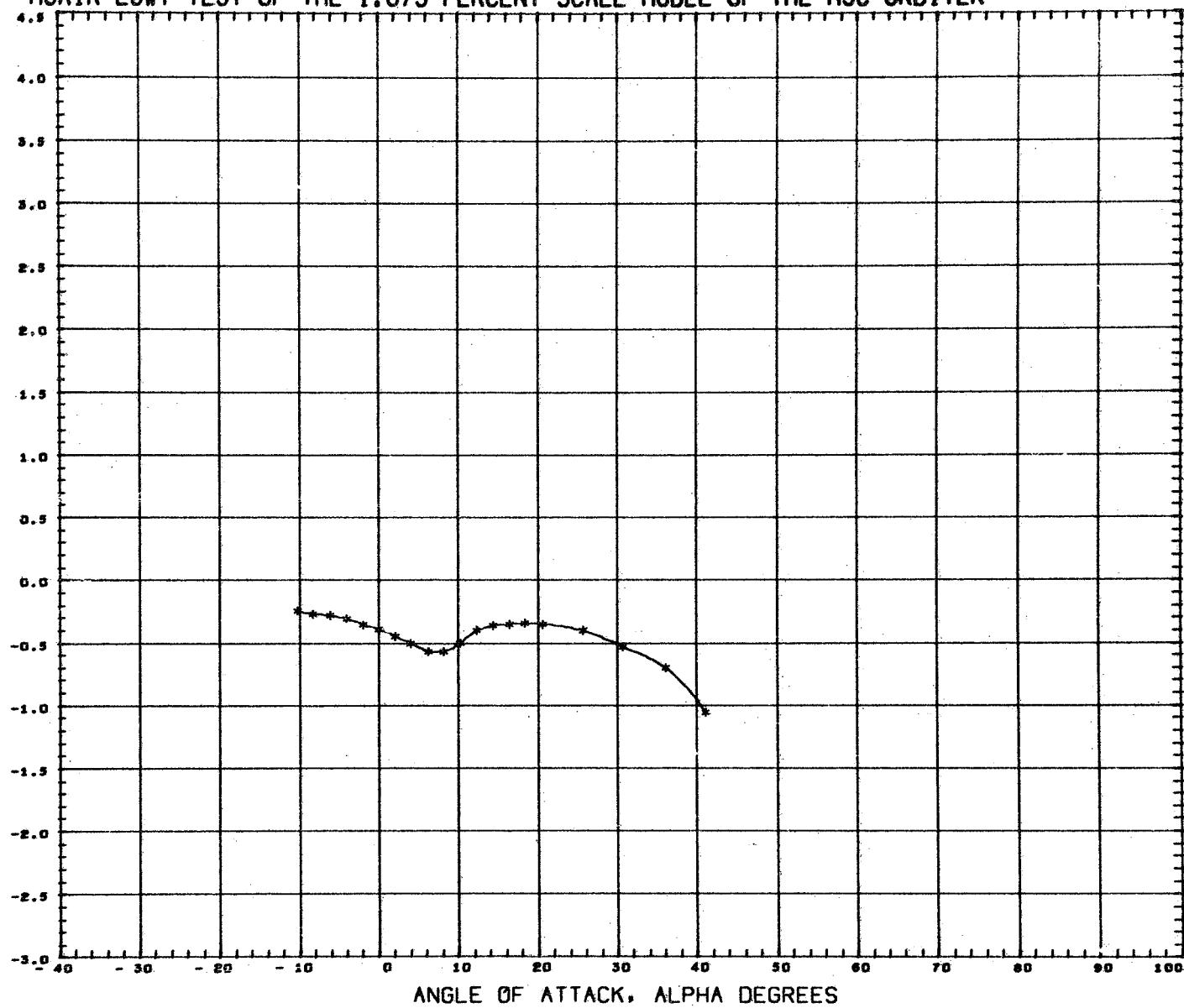
REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ Sq.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XHLP 1.38370X10⁻⁰¹ IN.
YHLP 0.00000X10⁺⁰⁰ IN.
ZHLP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6V3

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CNM



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL MACH PARAMETRIC VALUES
 * 0.250 BETA 10.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 0.000

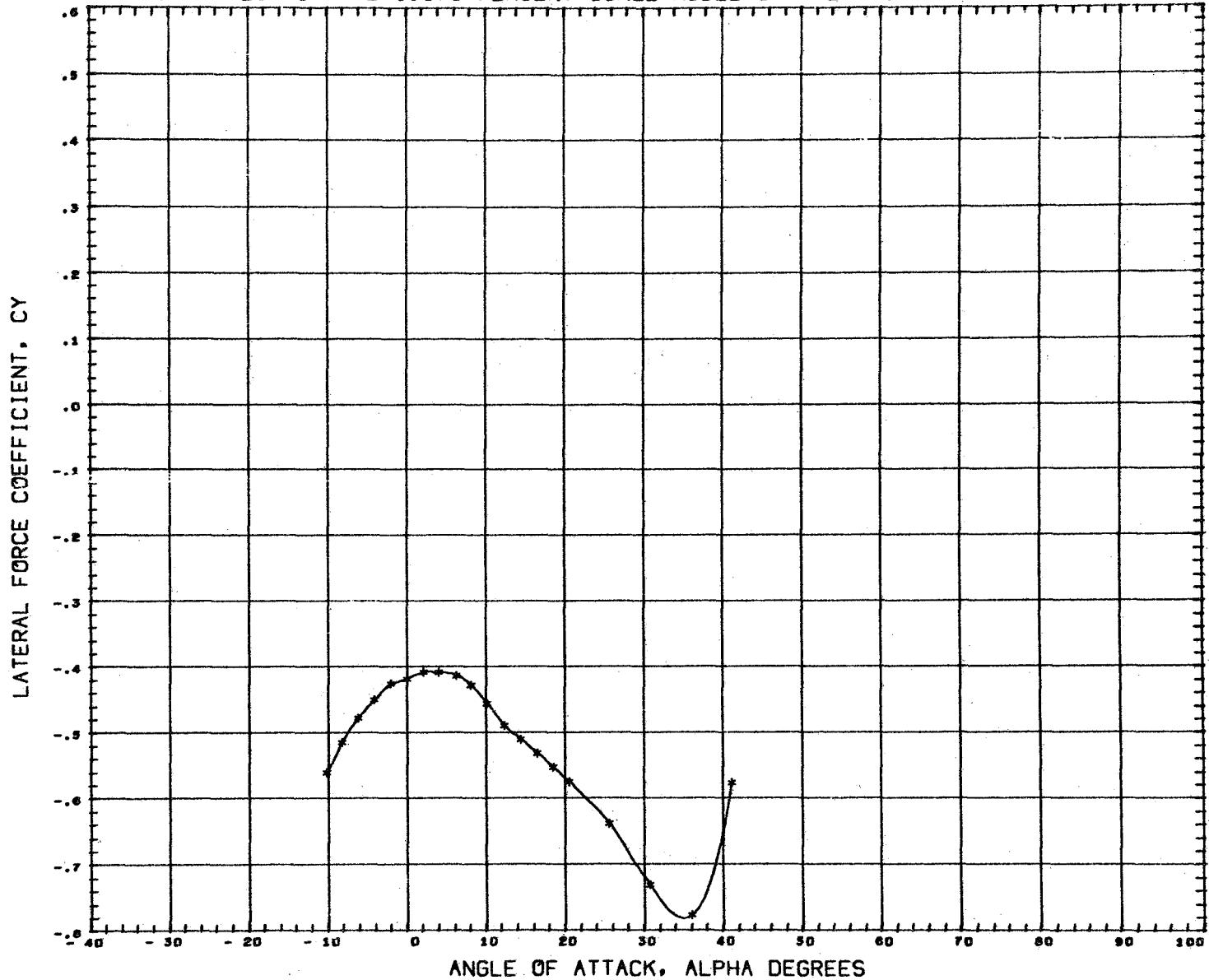
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XMRP 1.38370X10⁻⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6V3

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 10.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 0.000

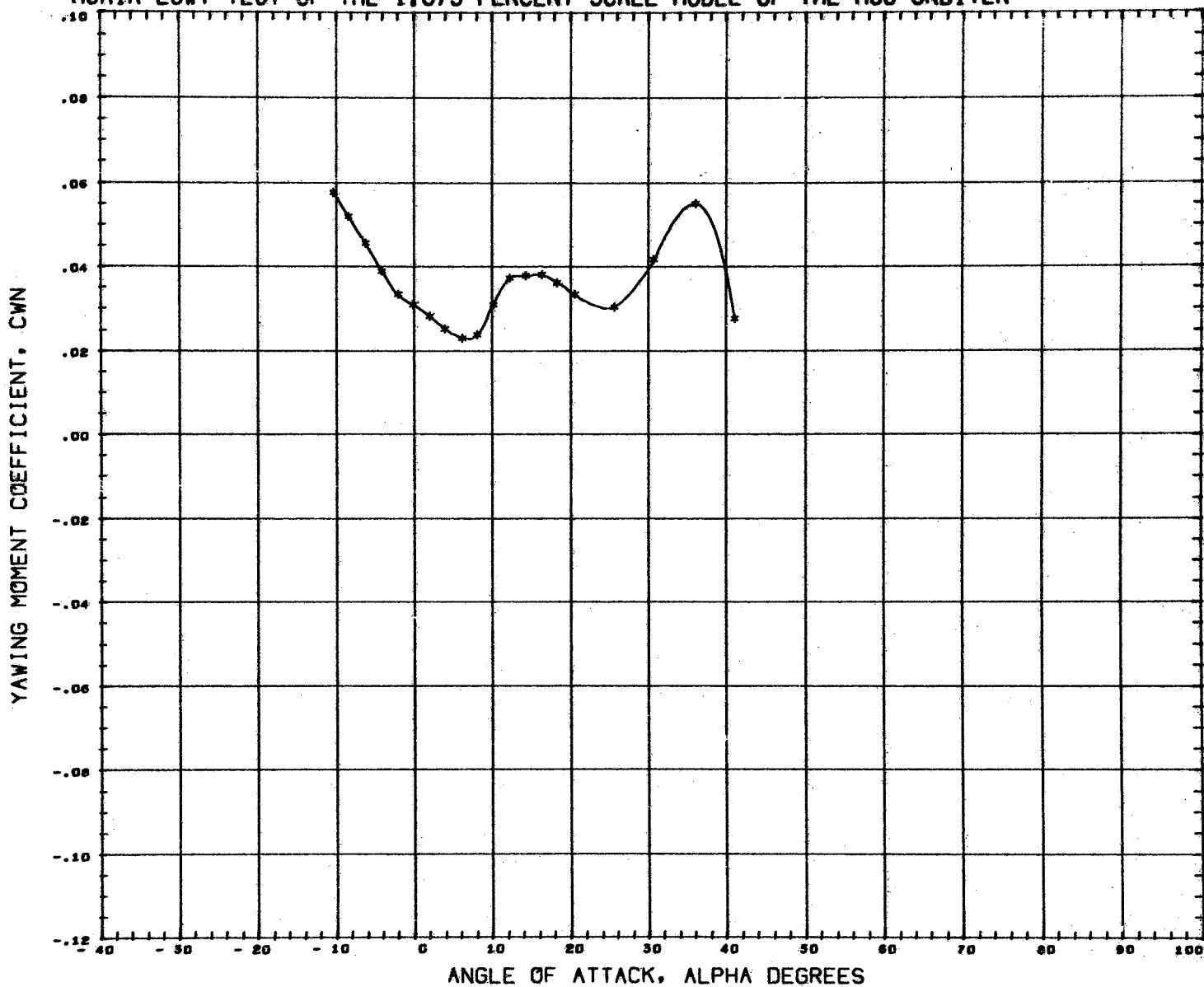
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰³ SQ.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁺⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6V3

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



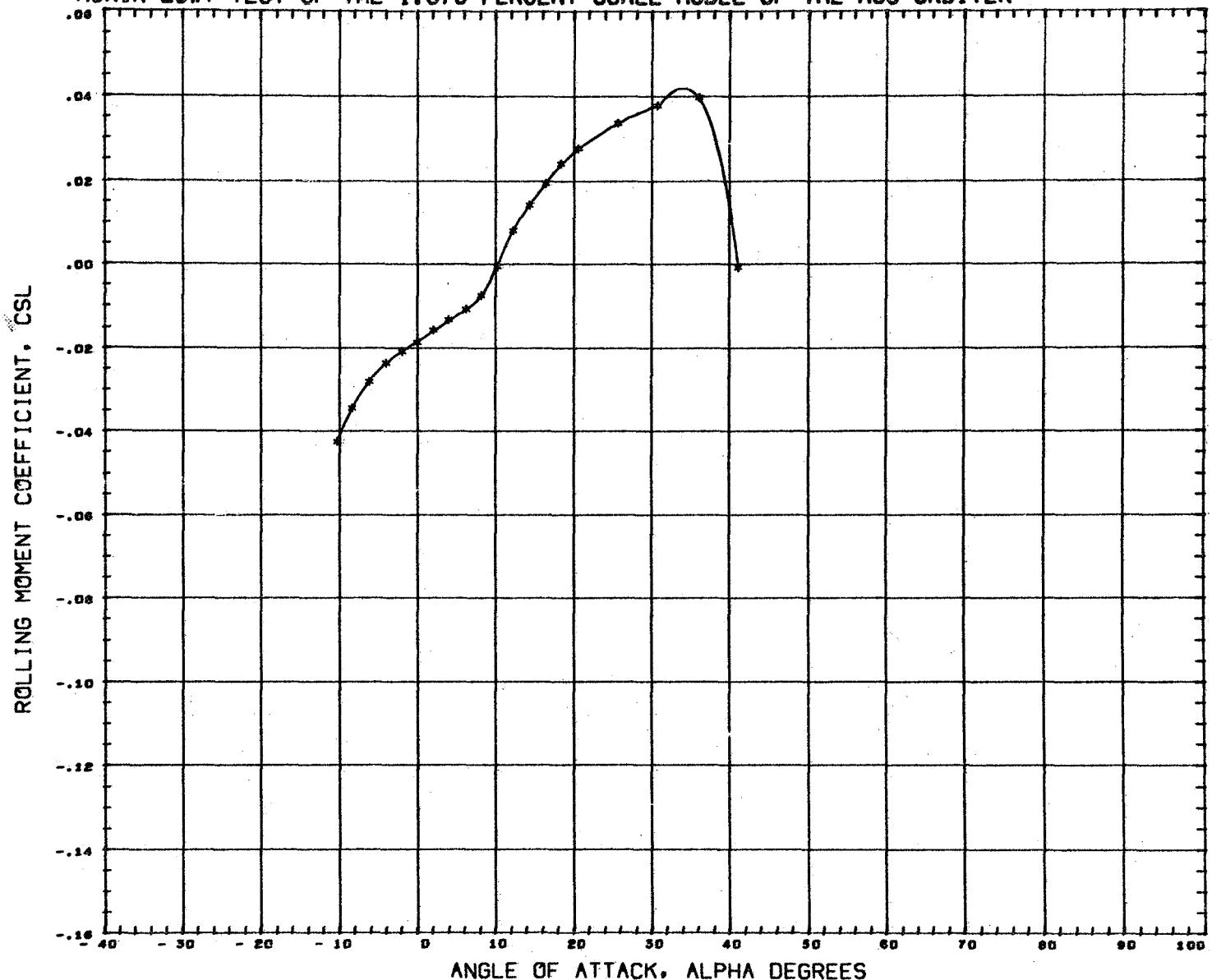
ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES		
*	0.250	BETA.	10.000	HTAIL 0.000
		ELEVTR	0.000	PHI 0.000
		WINGE	0.000	

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION	
REFS	3.20800X10 ⁻⁰¹ Sq.FT.
REFL	2.31700X10 ⁻⁰¹ FT.
REFB	1.50000X10 ⁺⁰⁰ FT.
XHRF	1.38370X10 ⁺⁰¹ IN.
YHRF	0.00000X10 ⁺⁰⁰ IN.
ZHRF	2.40000X10 ⁺⁰⁰ IN.
SCALE	1..7 00X ⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 10.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 0.000

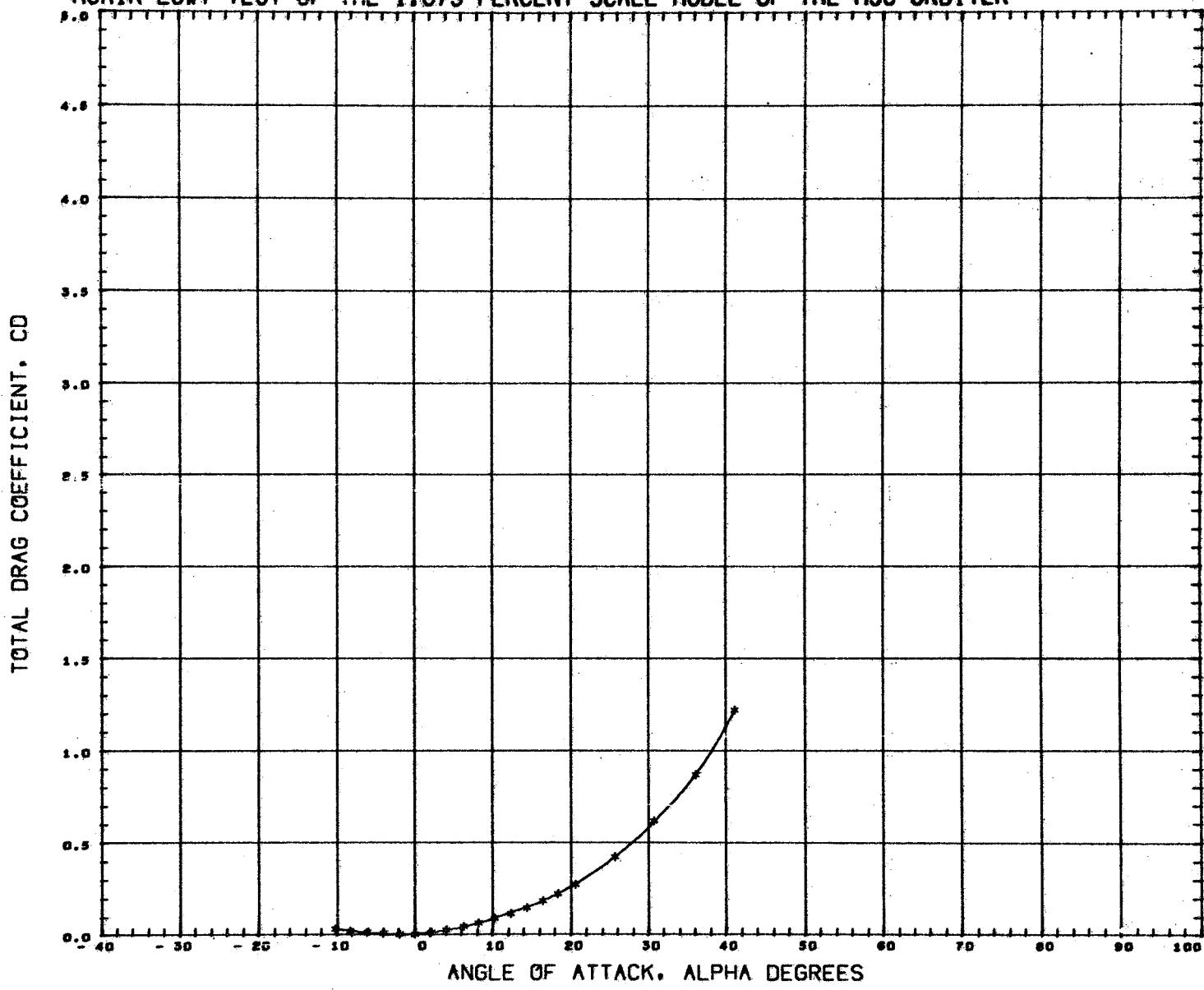
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
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REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.90000X10⁺⁰¹ FT.
XMRP 1.36370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁺⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6V3

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 10.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 0.000

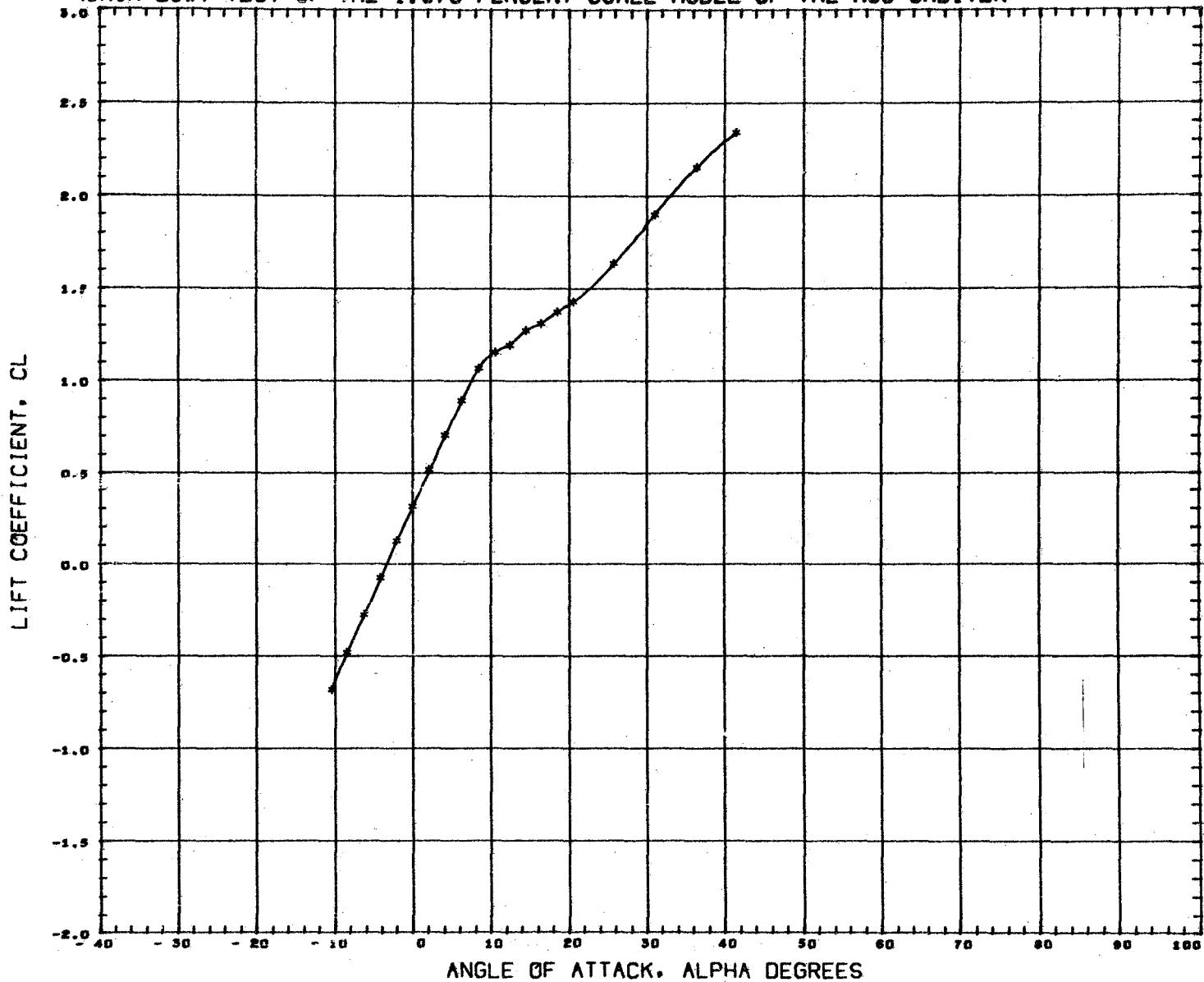
REFERENCE FILE SDY 37100150

LSWT 223 1.875 PC MOD S5 ORB. B1H6V3

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ 86. FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.30000X10⁺⁰¹ FT.
XNRP 1.38370X10⁺⁰¹ IN.
YNRP 0.00000X10⁺⁰⁰ IN.
ZNRP 2.40000X10⁺⁰⁰ IN.
SCALE 1.07500X10⁻⁰² SCALE

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



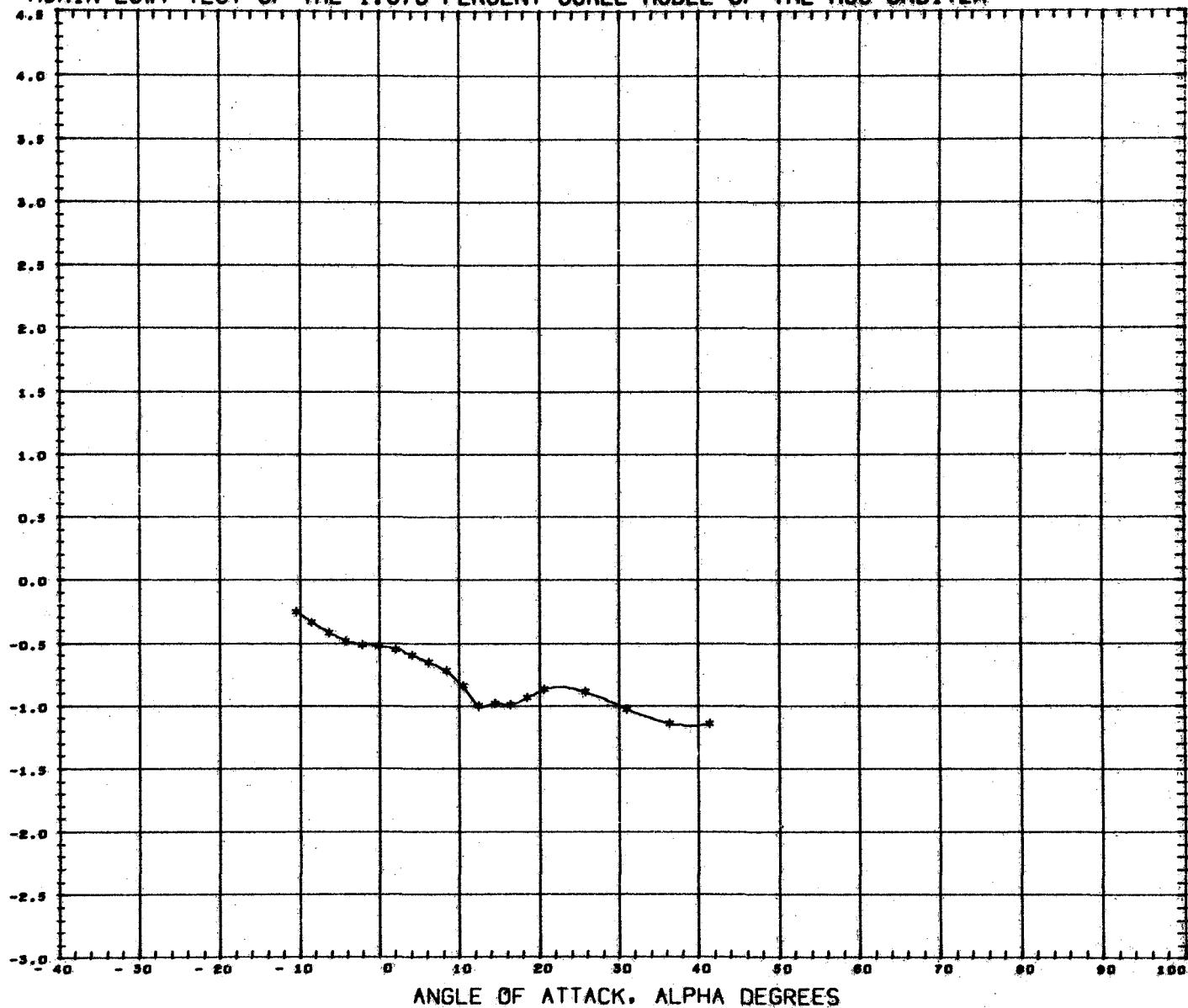
SYMBOL: MACH
* 0.250 PARAMETRIC VALUES
 BETA 10.000 HTAIL 0.000
 ELEVTR 2.000 PHI 0.000
 WINGL 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XMRP 1.30370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CNM



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL MACH
* 0.250 BETA 10.000 HTAIL 0.000
ELEVTR 2.000 PHI 0.000
WINGL 12.211

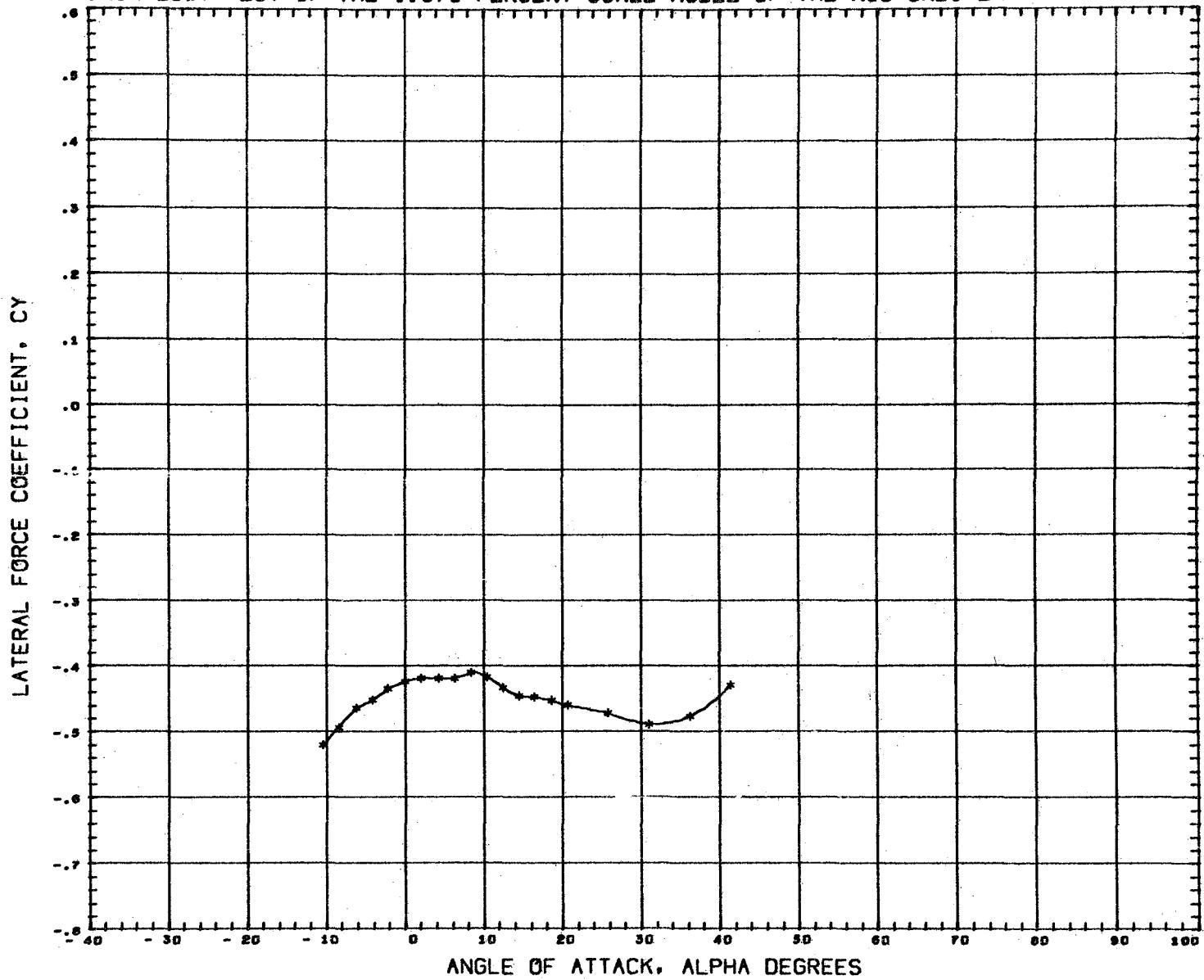
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SF.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁻⁰¹ FT.
XMRP 1.38370X10⁻⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰¹ IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. 6.H013V3W1

(RC1G00) 28 JUL 70 PAGE 264

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



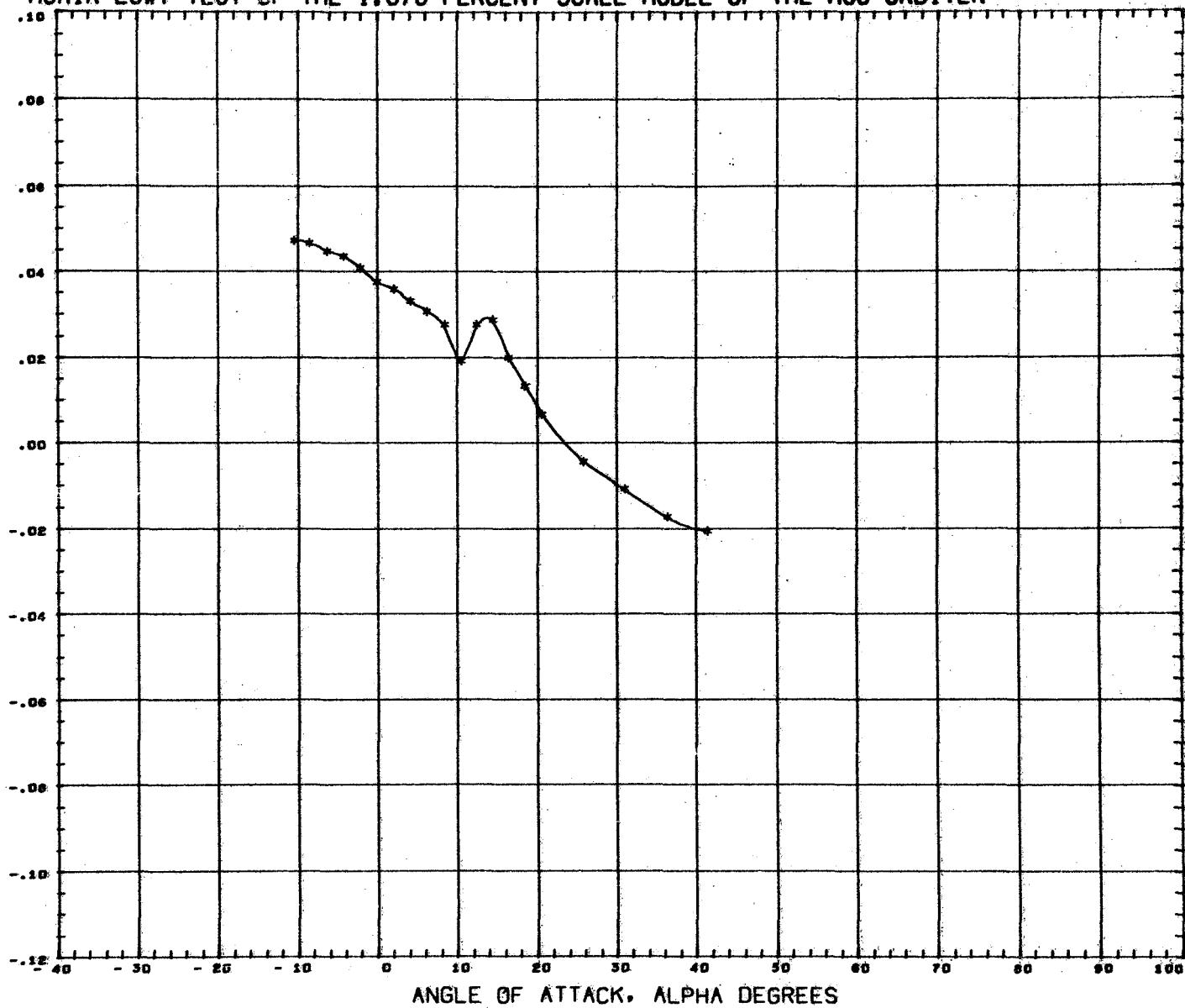
SYMBOL MACH PARAMETRIC VALUES
 * 0.250 BETA 10.000 HTAIL 0.000
 ELEVTR 2.000 PHI 0.000
 WINGL 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁺⁰¹ FT.
 REFBL 1.50000X10⁺⁰⁰ FT.
 XNRP 1.38370X10⁺⁰¹ IN.
 YNRP 0.00000X10⁺⁰⁰ IN.
 ZNRP 2.40000X10⁺⁰⁰ IN.
 SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, CWN



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 10.000 HTAIL 0.000
ELEVTR 2.000 PHI 0.000
WINGL 12.211

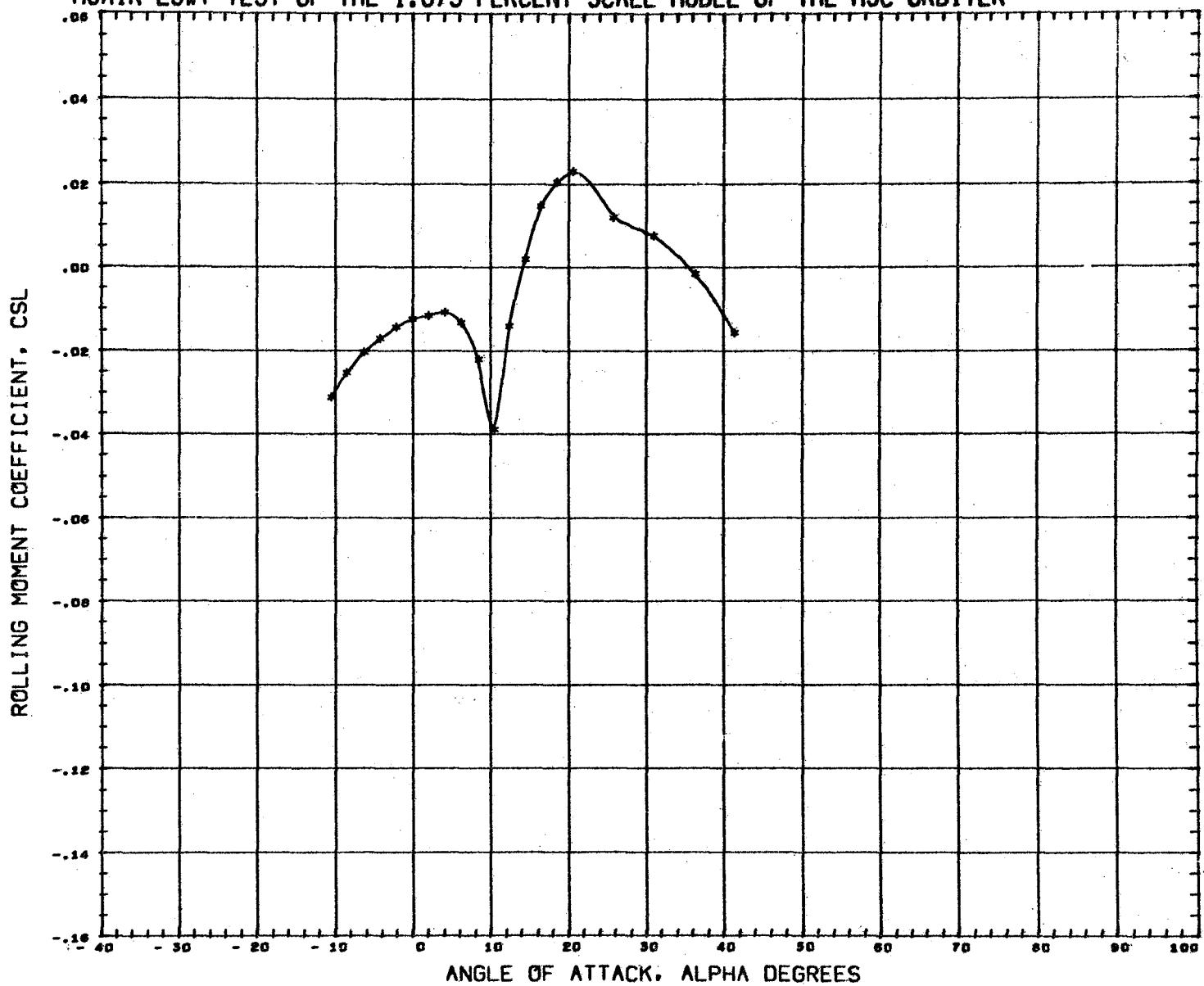
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REFERENCE INFORMATION
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REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XHRF 1.38370X10⁻⁰¹ IN.
YHRF 0.00000X10⁺⁰⁰ IN.
ZHRR 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



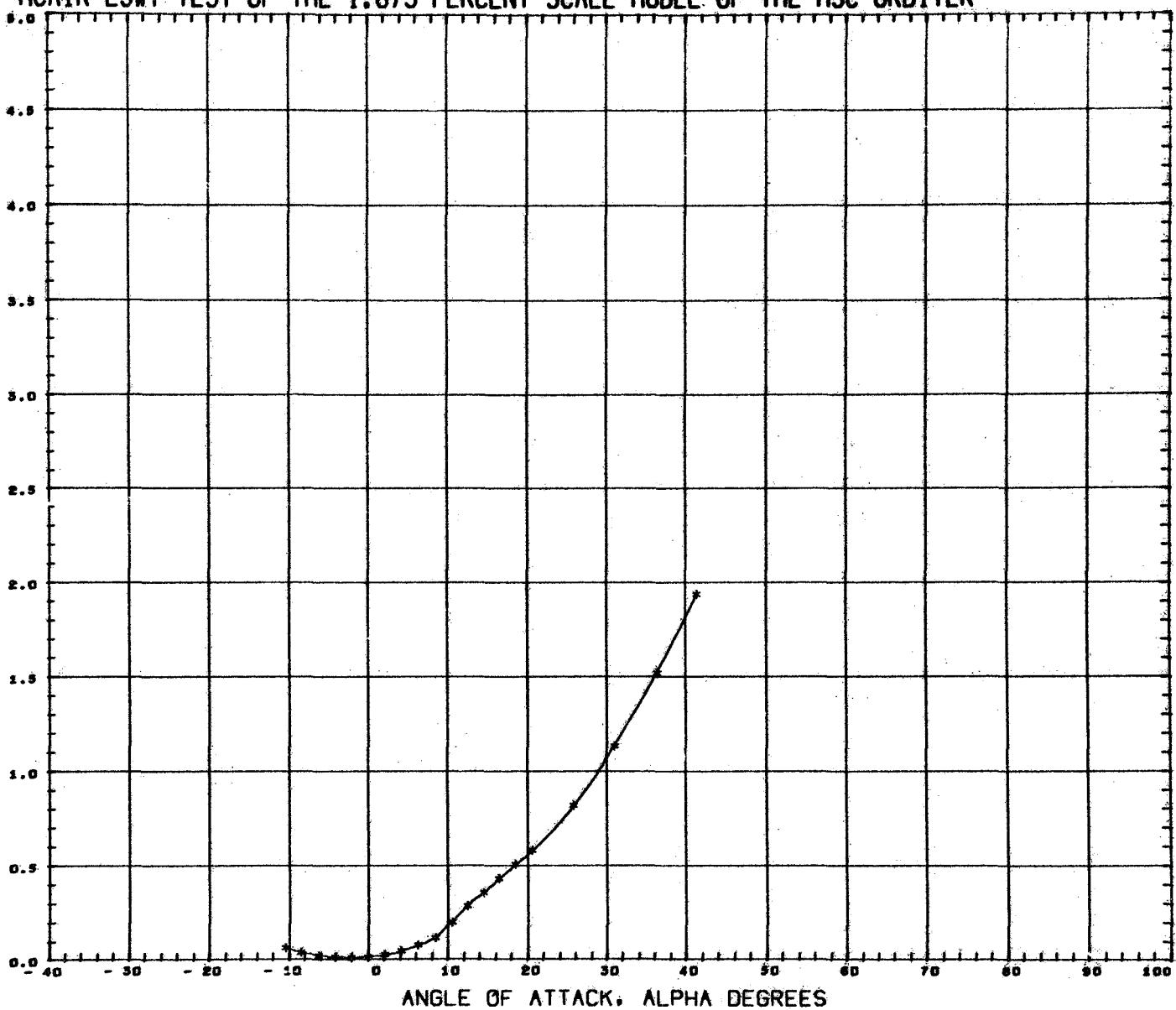
SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 10.000 HTAIL 0.000
ELEVTR 2.000 PHI 0.000
WINGL 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ 56. FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XHRP 1.38370X10⁺⁰¹ IN.
YHRP 0.00000X10⁺⁰⁰ IN.
ZHRP 2.40000X10⁺⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

TOTAL DRAG COEFFICIENT, CD



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES			
*	0.250	BETA	10.000	HTAIL	0.000
		ELEVTR	2.000	PHI	0.000
		WINGL	12.211		

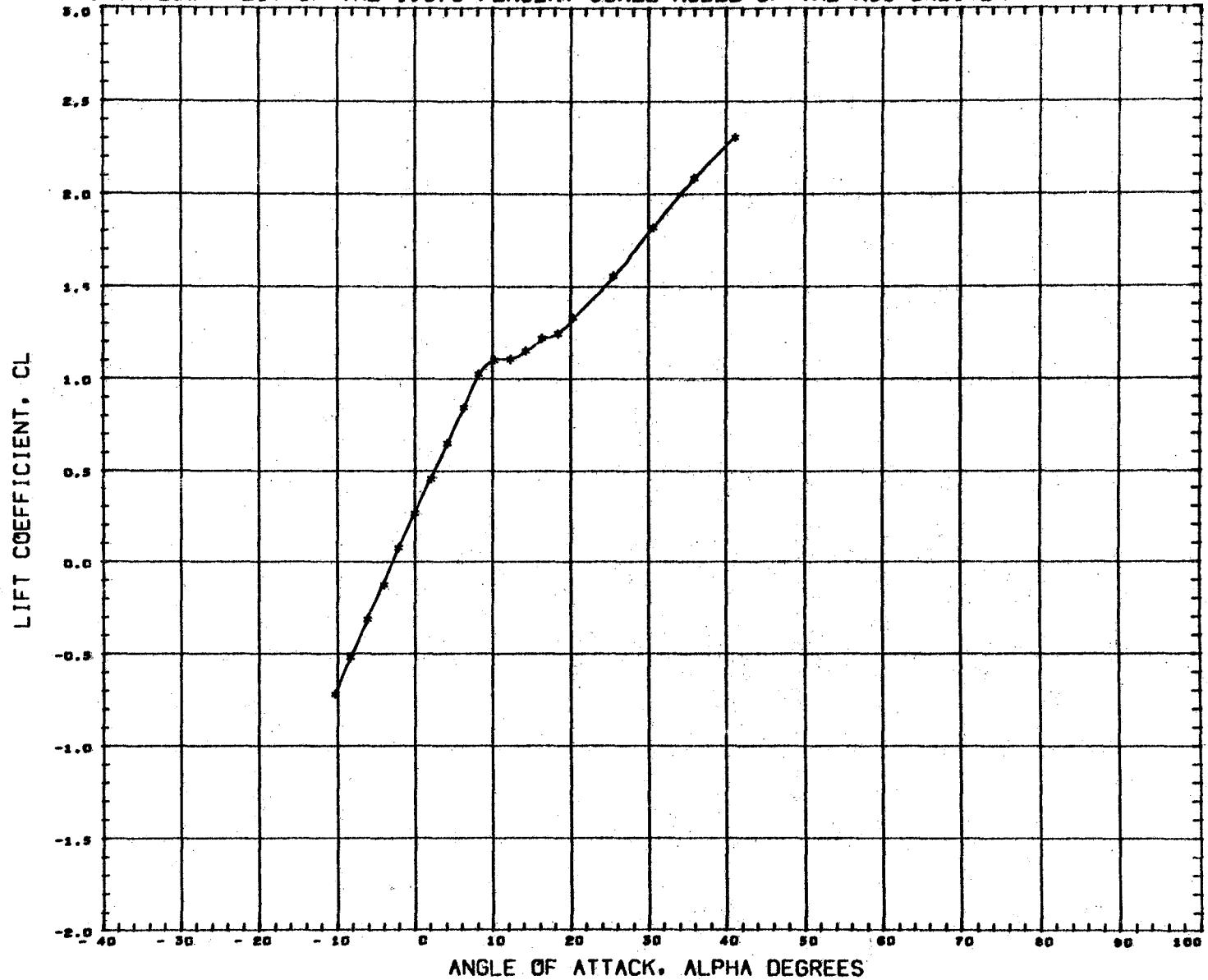
REFERENCE INFORMATION		
REFS	3.20600×10^{-01}	IN.
REFL	2.31700×10^{-01}	FT.
REFB	$1.50000 \times 10^{+00}$	FT.
XHLP	$1.38370 \times 10^{+01}$	IN.
YHLP	$0.00000 \times 10^{+00}$	IN.
ZHLP	$2.40000 \times 10^{+00}$	IN.
SCALE	1.87500×10^{-02}	SCALE

REFERENCE FILE SDY 37100150

LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
 * 0.250 BETA 5.000 HTAIL 0.000
 ELEVTR 2.000 PHI 0.000
 WINGL 12.211

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.30000X10⁻⁰⁰ FT.
 XHRF 1.38370X10⁺⁰¹ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZHRF 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

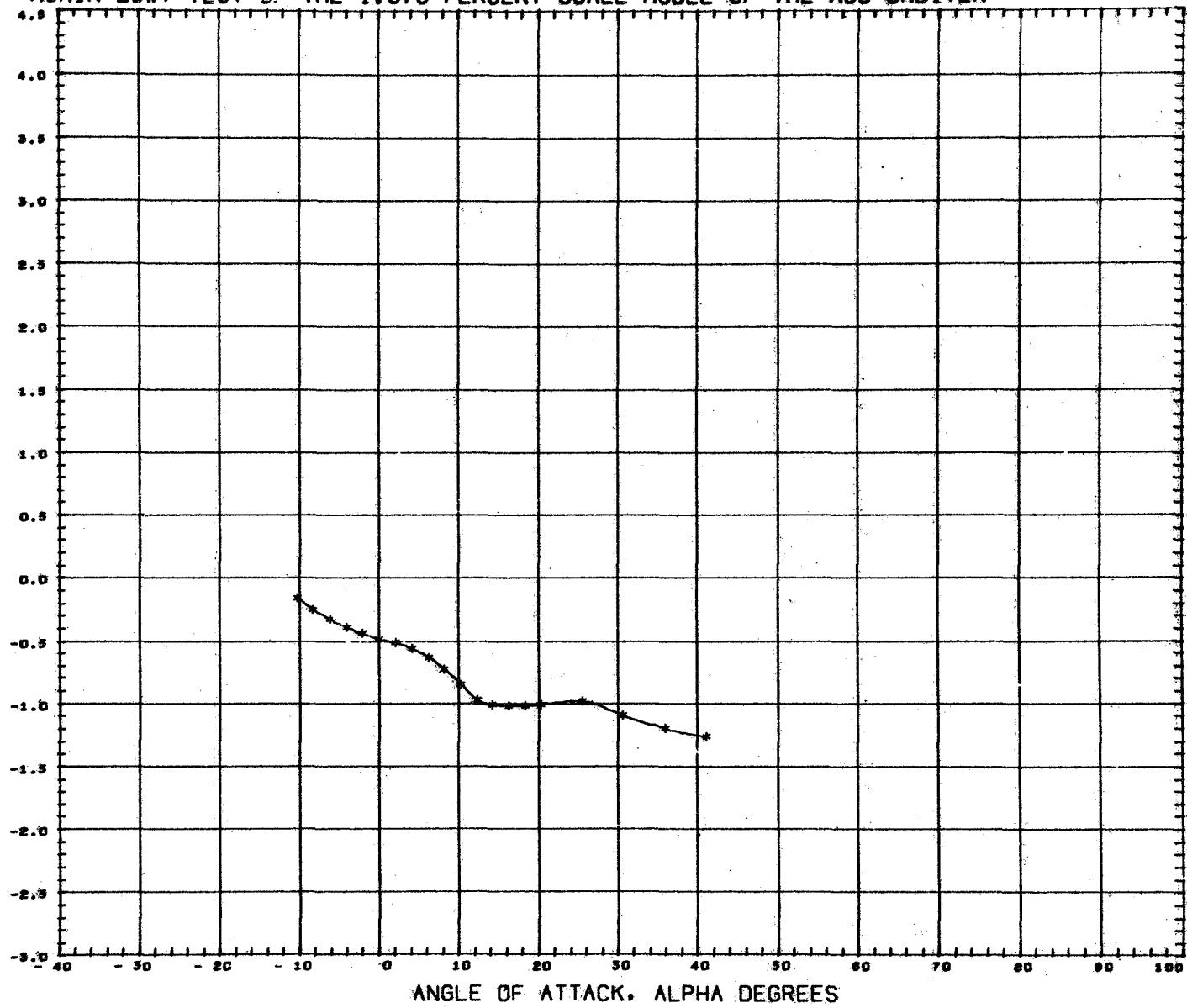
REFERENCE FILE SDY 37100150

LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CNM



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES		
*	0.250	BETA	5.000	HTAIL 0.000
		ELEVTR	-2.000	PHI 0.000
		WINGL	12.211	

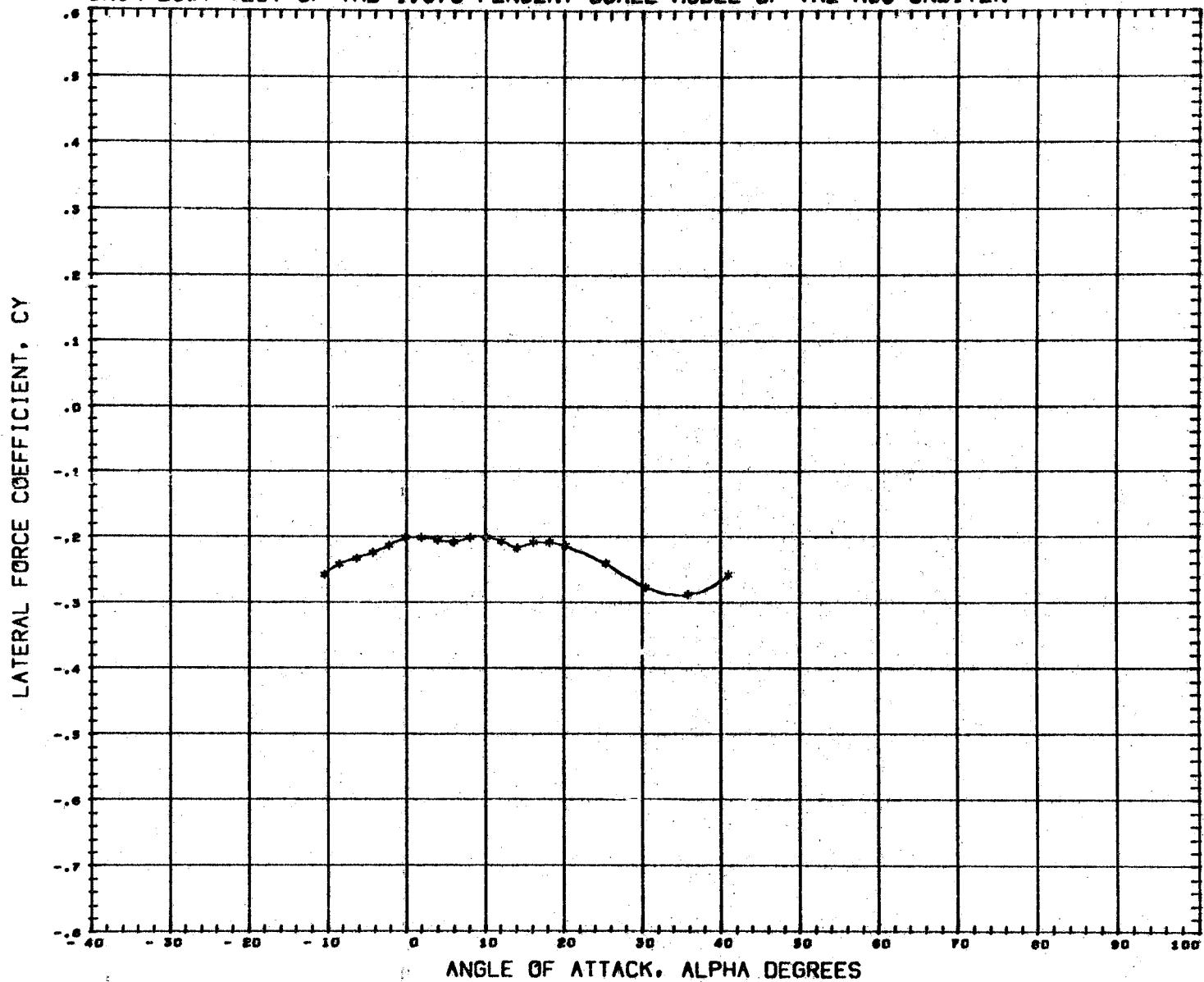
REFERENCE FILE SDY-37100150

REFERENCE INFORMATION	
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REFL	2.31700X10 ⁻⁰¹ FT.
REFB	1.50000X10 ⁺⁰⁰ FT.
XHRP	1.38370X10 ⁻⁰¹ IN.
YHRP	0.00000X10 ⁺⁰⁰ IN.
ZHRP	2.40000X10 ⁻⁰² IN.
SCALE	1.87500X10 ⁻⁰² SCALE

LSWT 223 1.875 PC MOD SS ORB. B1H013V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 9.000 HTAIL 0.000
ELEVTR 2.000 PHI 0.000
WINGL 12.211

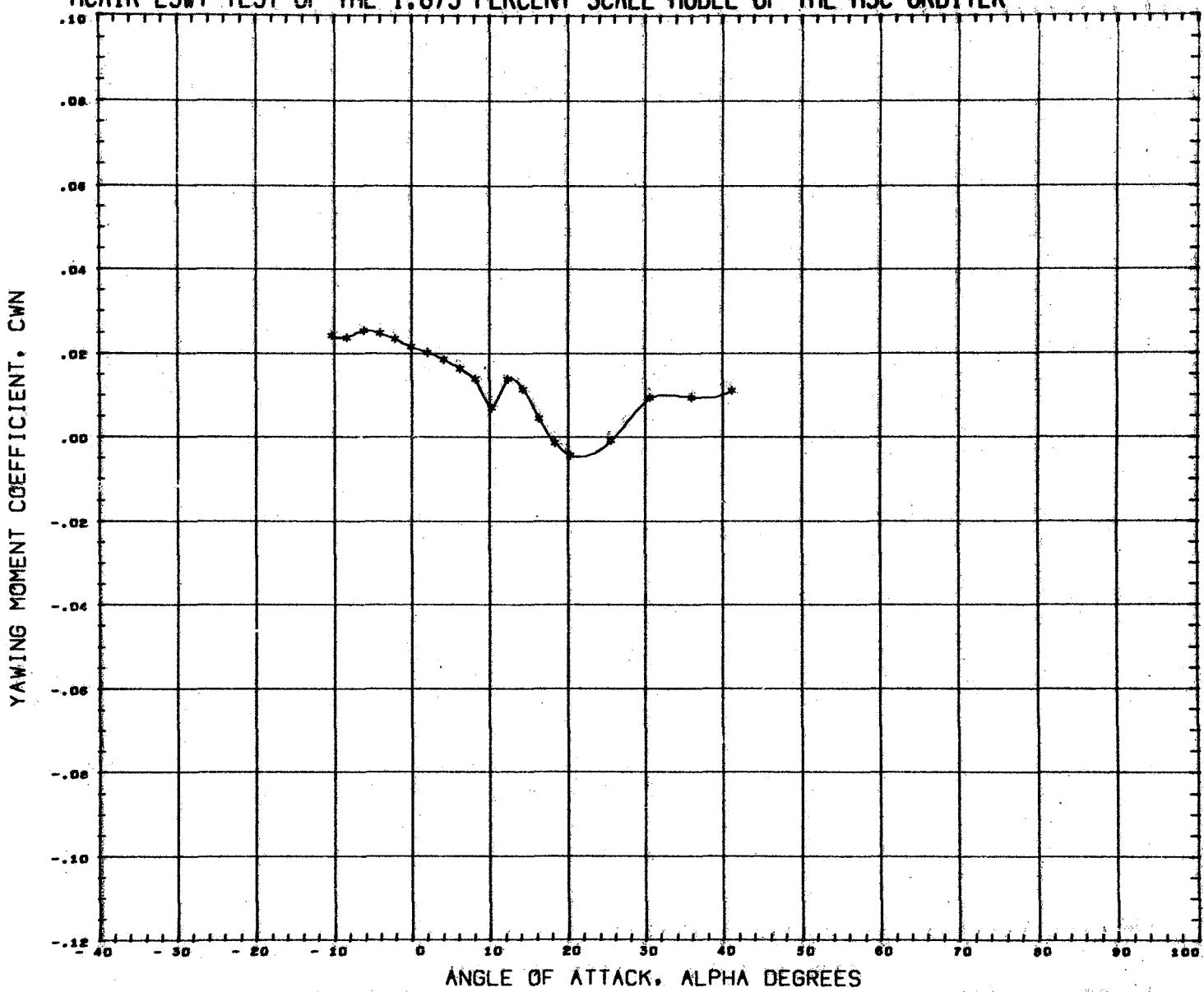
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REFERENCE INFORMATION
REFS 3.20600X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XNRP 1.36370X10⁺⁰¹ IN.
YNRP 0.60000X10⁺⁰⁰ IN.
ZNRP 2.40000X10⁺⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES		
		BETA	HTAIL	0.000
*	0.250	5.000	PHI	0.000
	ELEVTR	2.000		
	WINGL	12.211		

REFERENCE FILE SDY 37100150

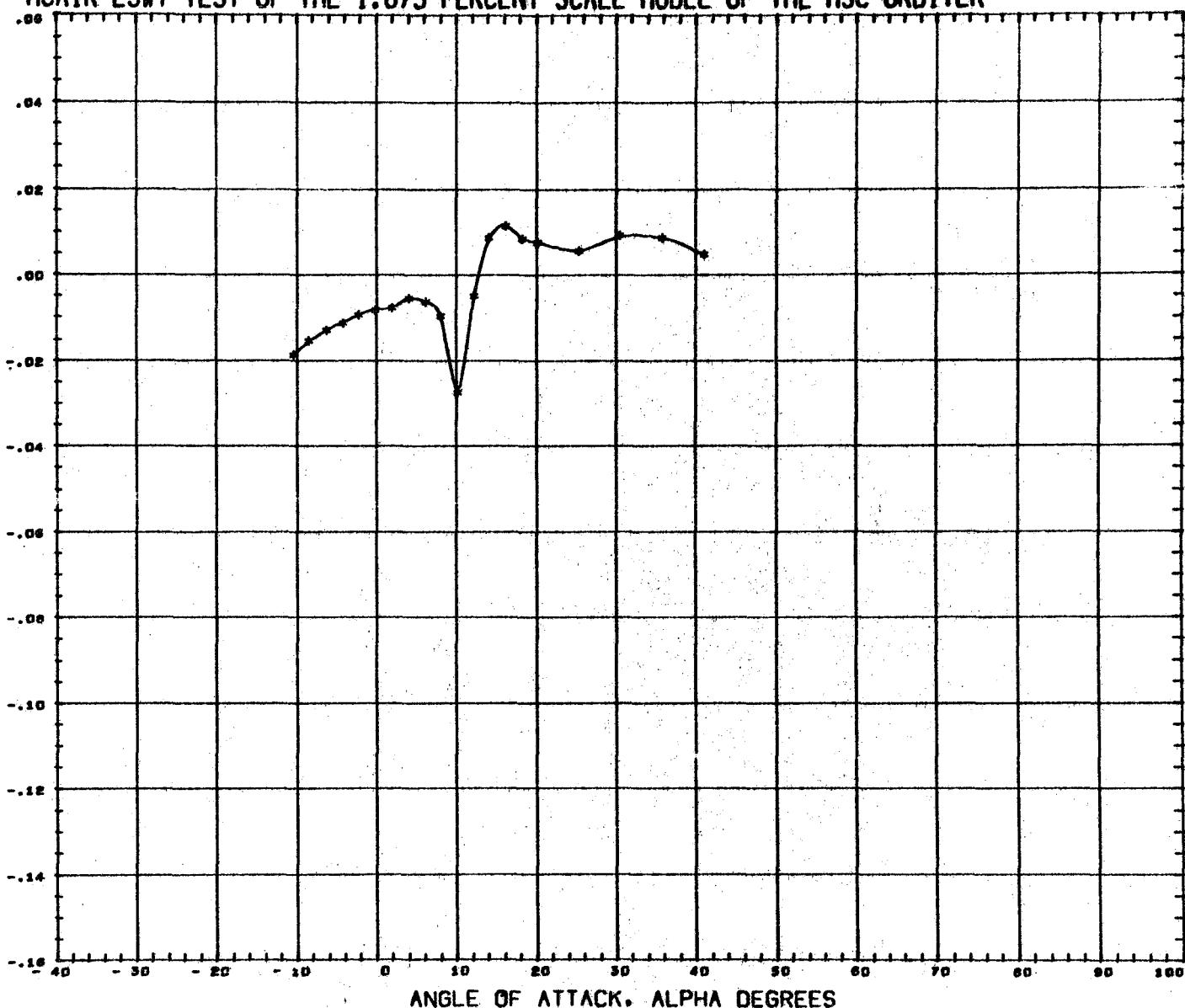
REFERENCE INFORMATION	
REFS	3.20600X10 ⁻⁰¹ SB.FT.
REFL	2.31700X10 ⁻⁰¹ FT.
REFB	1.50000X10 ⁺⁰⁰ FT.
XHRF	1.36370X10 ⁺⁰¹ IN.
YHRF	0.00000X10 ⁺⁰⁰ IN.
ZHRF	2.40000X10 ⁺⁰⁰ IN.
SCALE	1.67300X10 ⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

ROLLING MOMENT COEFFICIENT, CSL



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES			
*	0.250	BETA	5.000	HTAIL	0.000
		ELEVTR	2.000	PHI	0.000
		WINGL	12.211		

REFERENCE FILE SDY 37100150

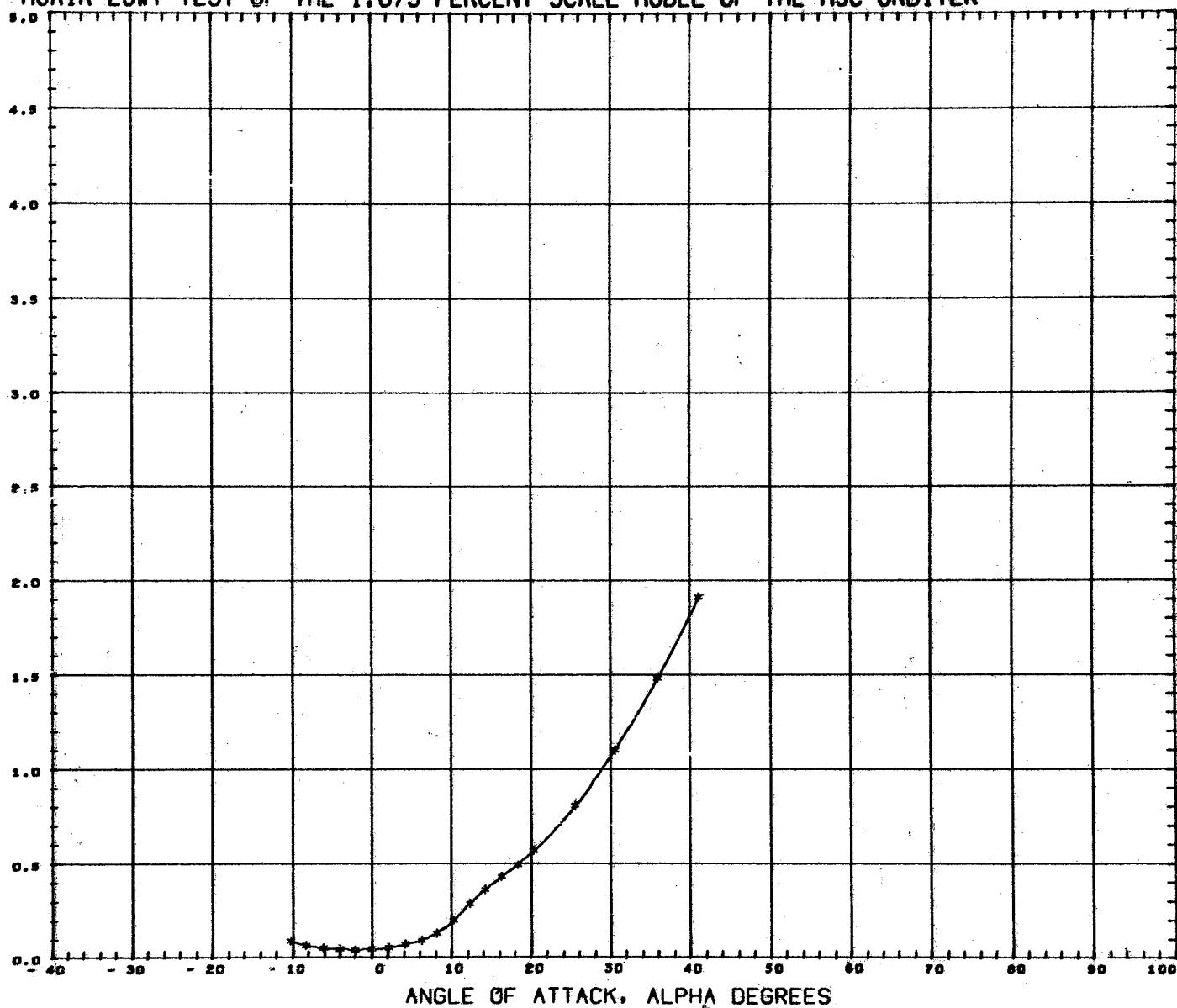
REFERENCE INFORMATION	
REFS	3.20000×10^{-01} SF.FT.
REFL	$2.31700 \times 10^{+00}$ FT.
REFB	$1.50000 \times 10^{+00}$ FT.
XNRP	1.36370×10^{-01} IN.
YNRP	$0.00000 \times 10^{+00}$ IN.
ZNRP	2.40000×10^{-02} IN.
SCALE	1.87500×10^{-02} SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

TOTAL DRAG COEFFICIENT, CD



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES			
*	0.250	BETA	5.000	HTAIL	0.000
		ELEVTR	2.000	PHI	0.000
		WINGL	12.251		

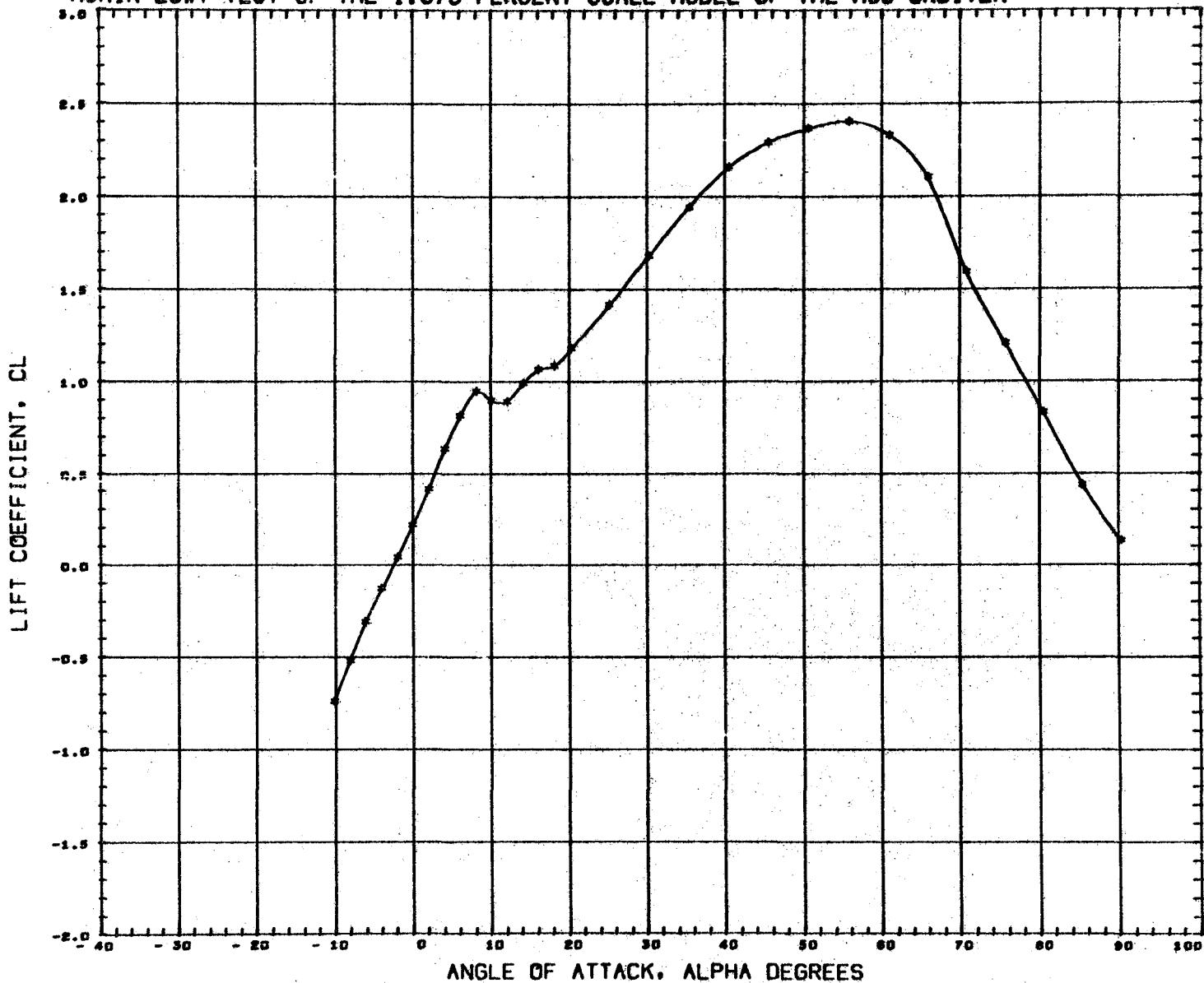
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REFERENCE INFORMATION		
REFS	3.20000X10 ⁻⁰³	IN.
REFL	2.31700X10 ⁻⁰¹	FT.
REFB	1.50000X10 ⁺⁰¹	FT.
XMRP	1.38570X10 ⁺⁰⁰	IN.
YMRP	0.00000X10 ⁺⁰⁰	IN.
ZMRP	2.40000X10 ⁺⁰⁰	IN.
SCALE	1.87500X10 ⁻⁰²	SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H013V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 5.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 12.211

REFERENCE FILE SDY 37100150

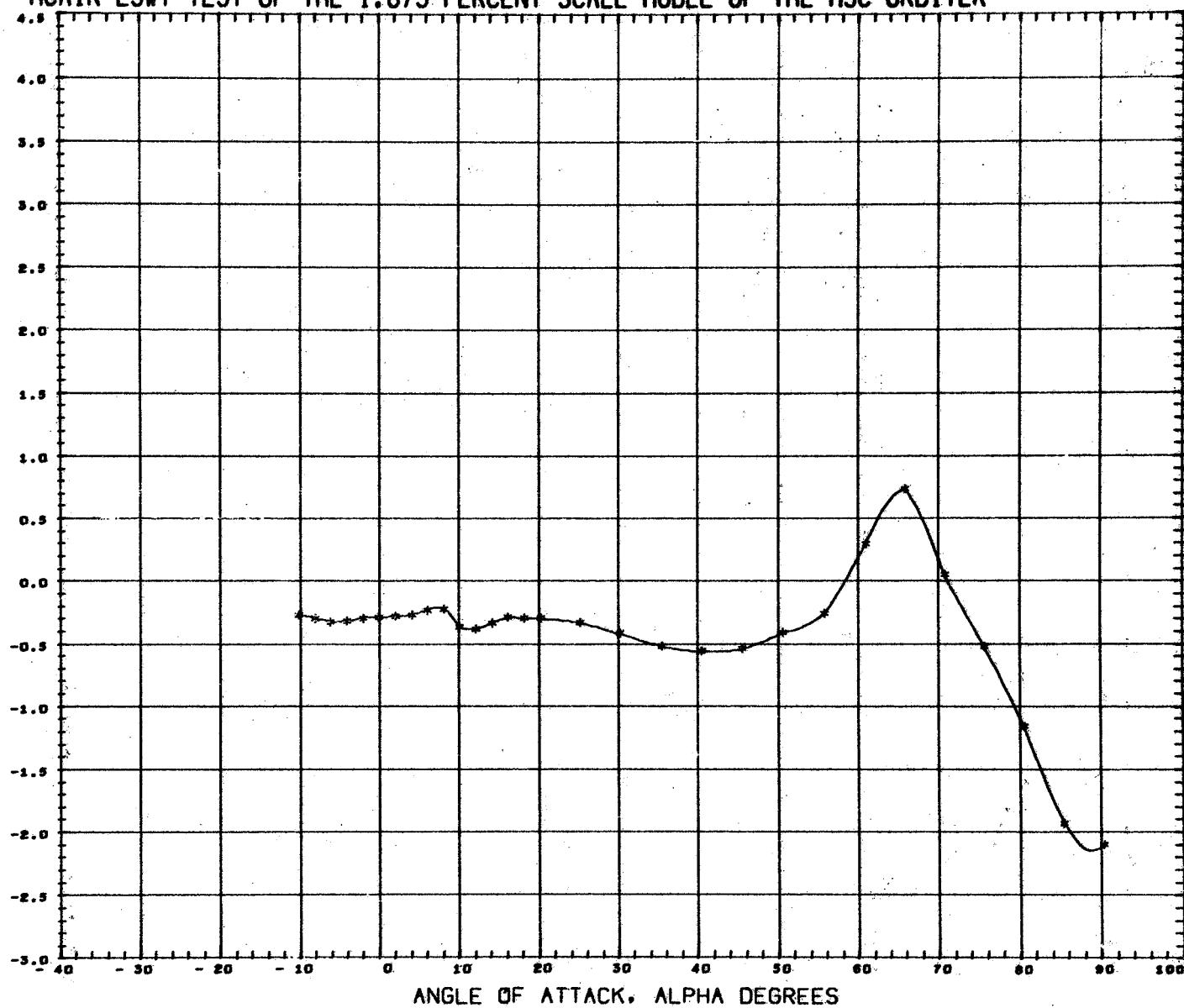
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REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁺⁰² IN.
SCALE 1.07500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CNM



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 5.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 12.211

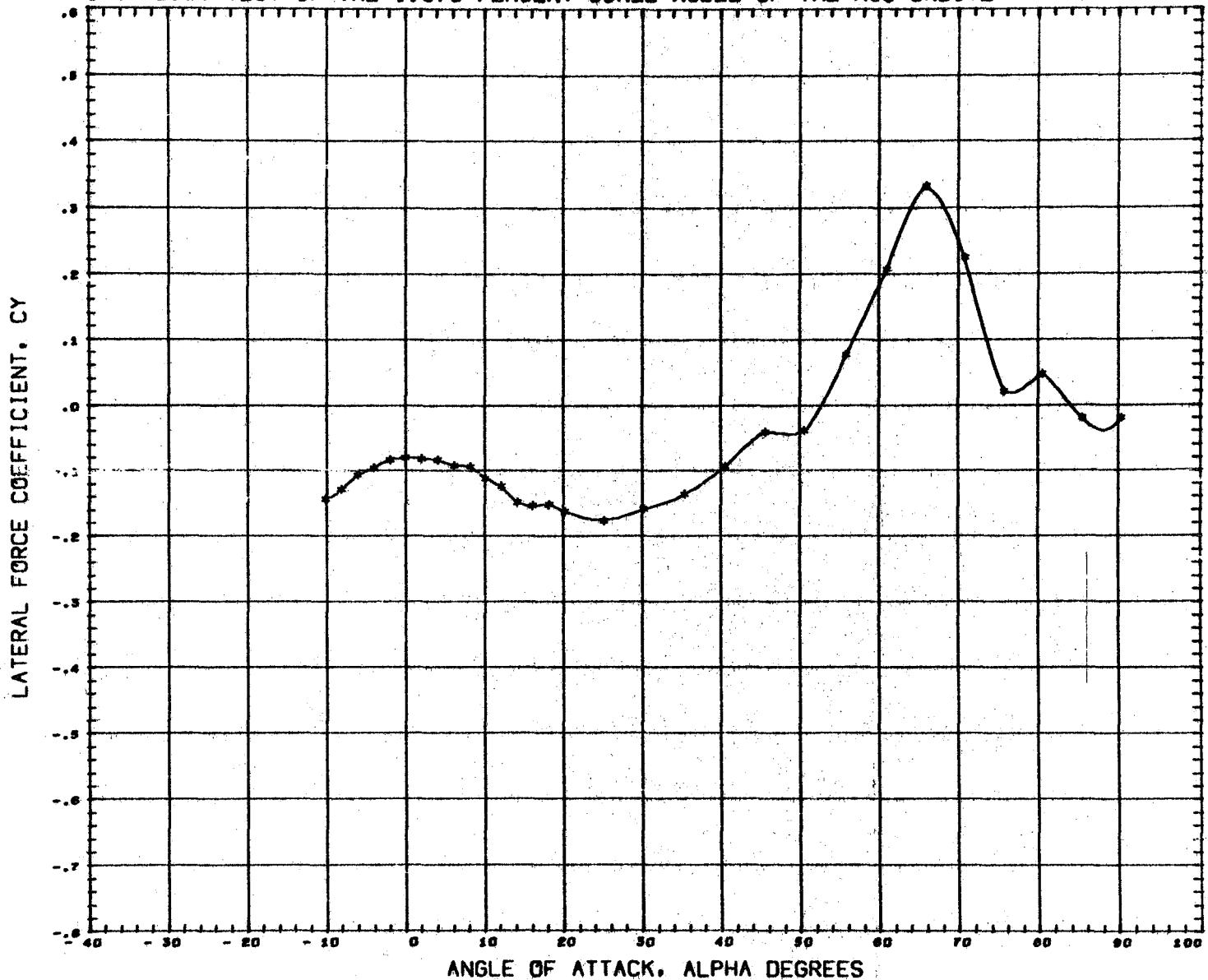
REFERENCE FILE SDY 37100150

LSWT 223 1.875 PC MOD S5 ORB. B1H6W1

REFERENCE INFORMATION
REFS 3.20000X10⁻⁰¹ 56.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁻⁰¹ FT.
XMRP 1.38370X10⁻⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.67500X10⁻⁰² SCALE

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
 • 0.170 BETA 5.000 HTAIL 0.000
 ELEVTR 0.000 FHI 0.000
 WINGL 12.211

REFERENCE FILE SDY 37100150

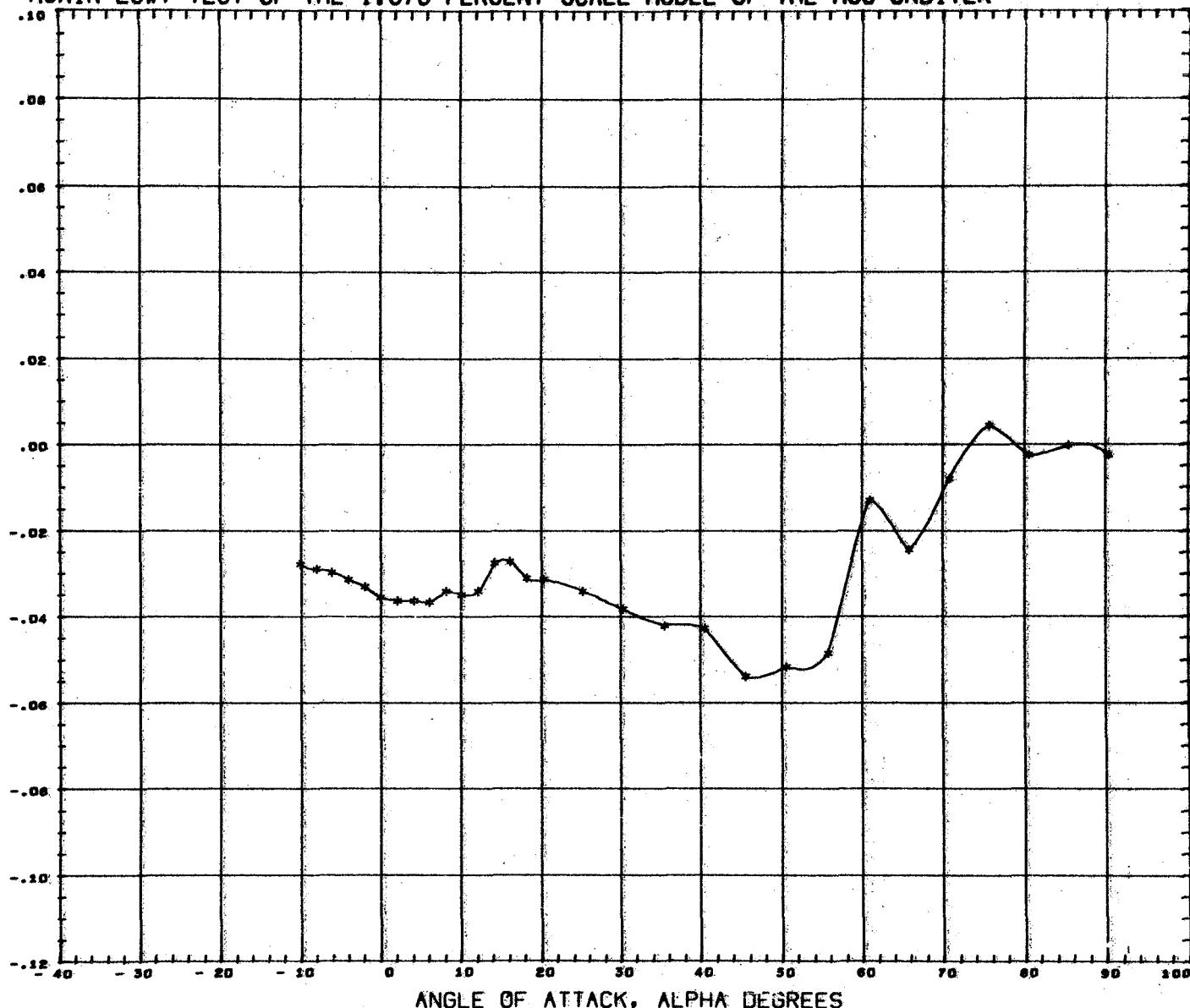
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 REFB 1.50000X10⁺⁰¹ FT.
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 YNRP 0.00000X10⁺⁰⁰ IN.
 ZNRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, C_{WN}



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL MACH
* 0.170 PARAMETRIC VALUES:
BETA 5.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 12.211

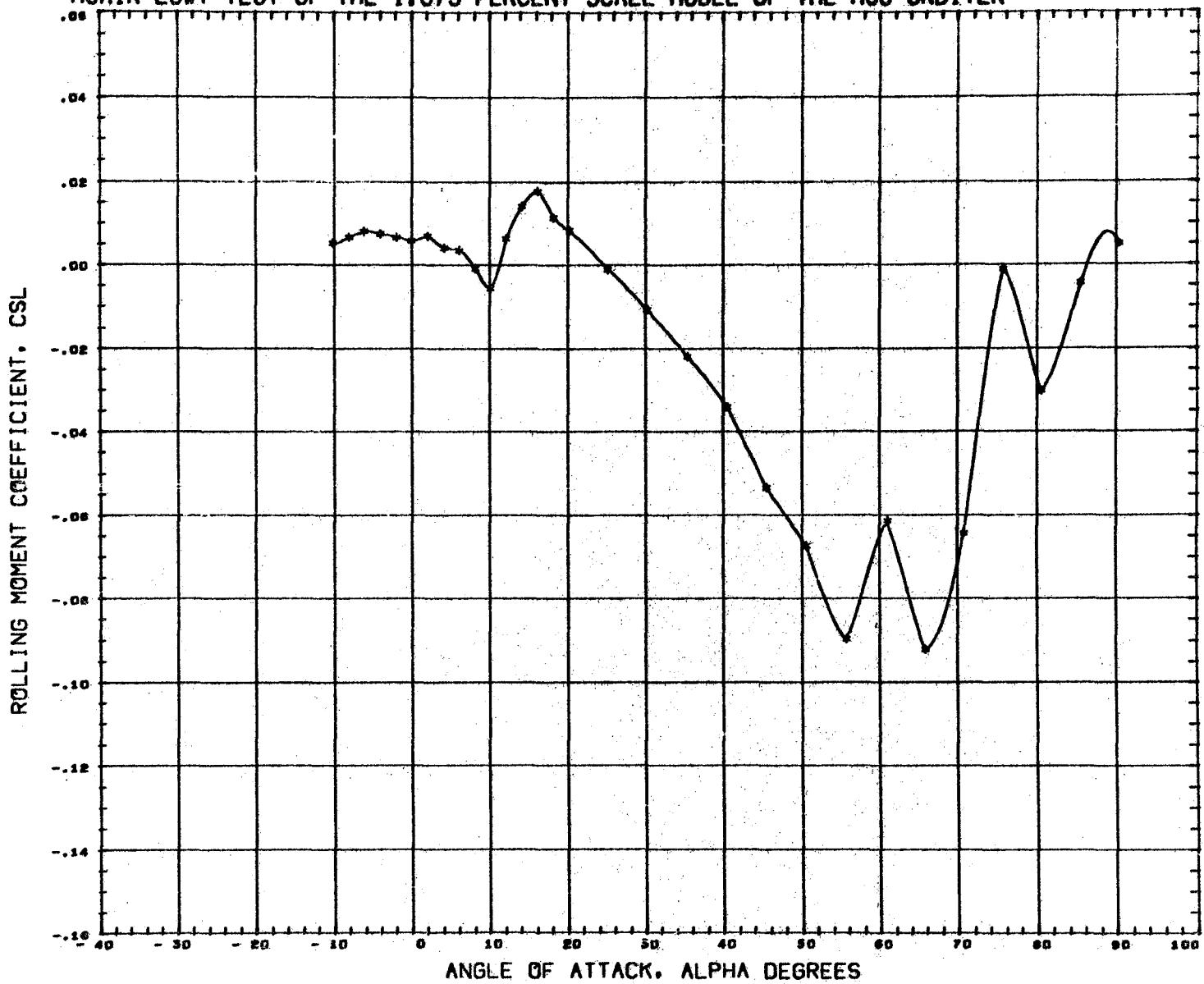
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REFERENCE INFORMATION
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REFB: 1.50000X10⁺⁰⁰ FT.
XMRP: 1.38370X10⁺⁰¹ IN.
YMRP: 0.00000X10⁺⁰⁰ IN.
ZMRP: 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD SS ORB. B1H6W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 5.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 12.211

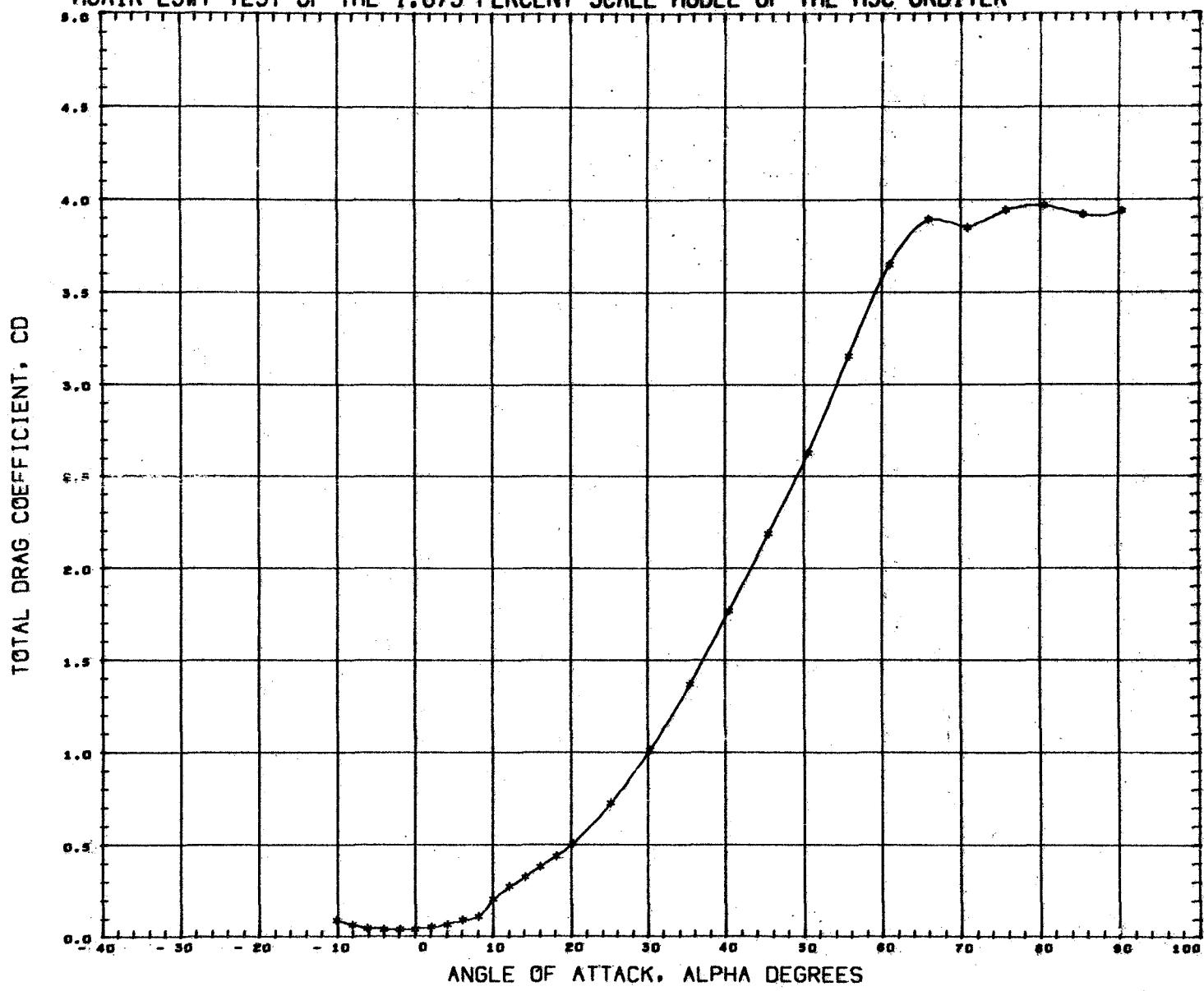
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REFERENCE INFORMATION
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REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁻⁰⁰ FT.
XNRP 1.36370X10⁺⁰¹ IN.
YHRP 0.00000X10⁺⁰⁰ IN.
ZHRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 5.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 12.211

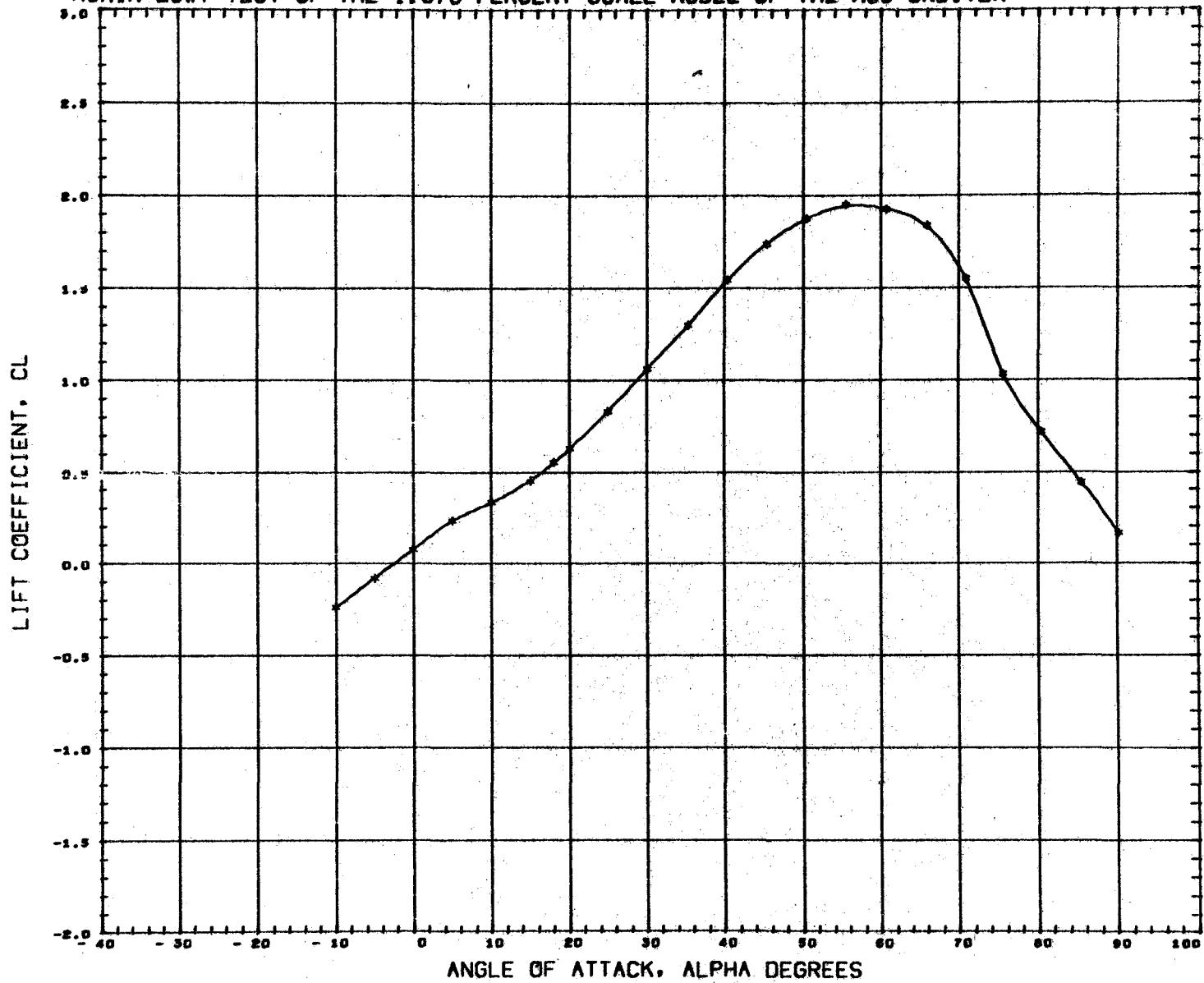
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LSWT 223 1.875 PC MOD S5 ORB. B1H6WI

REFERENCE INFORMATION
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REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XMRP 1.36370X10⁻⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

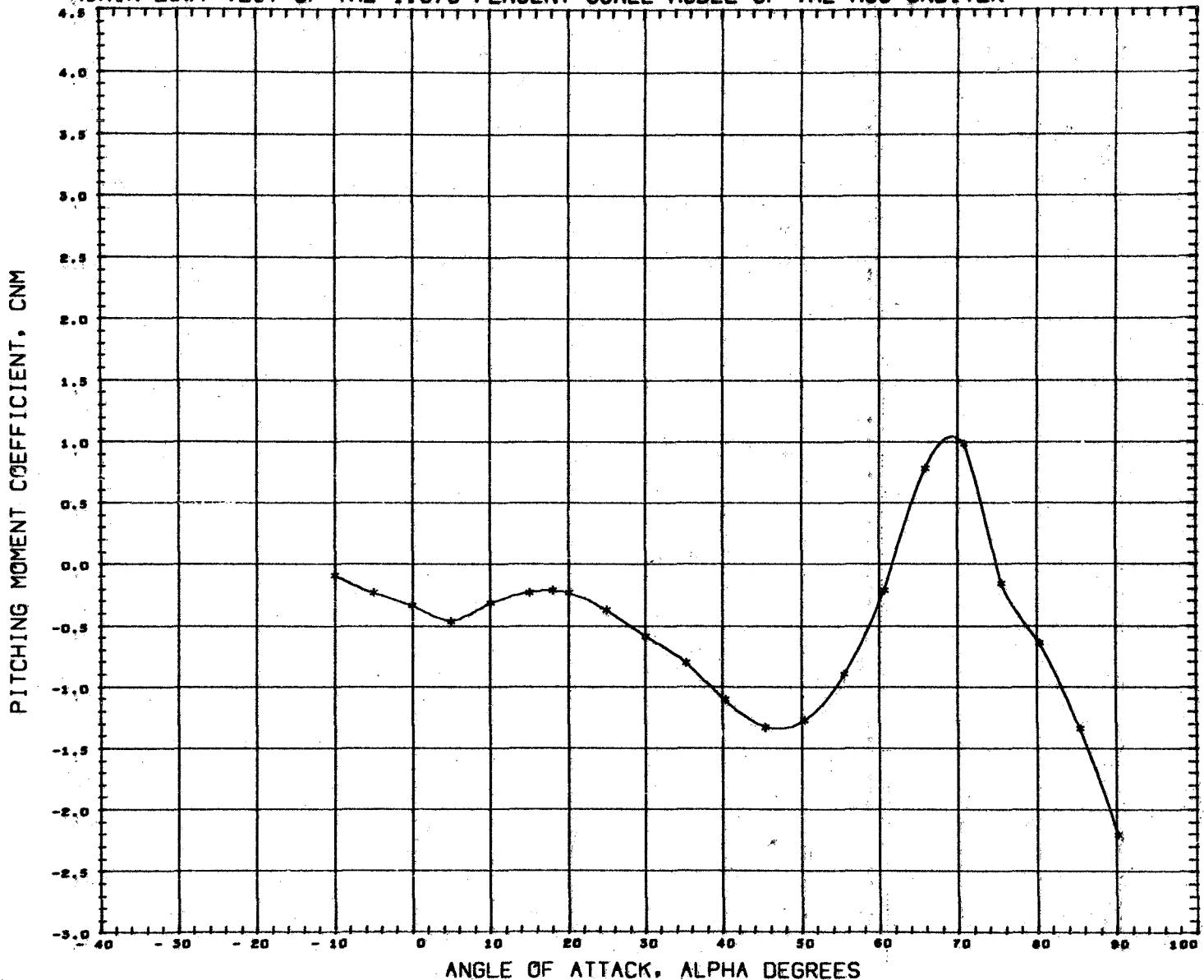


SYMBOL MACH PARAMETRIC VALUES
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ELEVTR 0.000 PHI 0.000
WINGL 0.000

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XHMP 1.38370X10⁺⁰¹ IN.
YHMP 0.00000X10⁺⁰⁰ IN.
ZHMP 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	5.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	0.000		

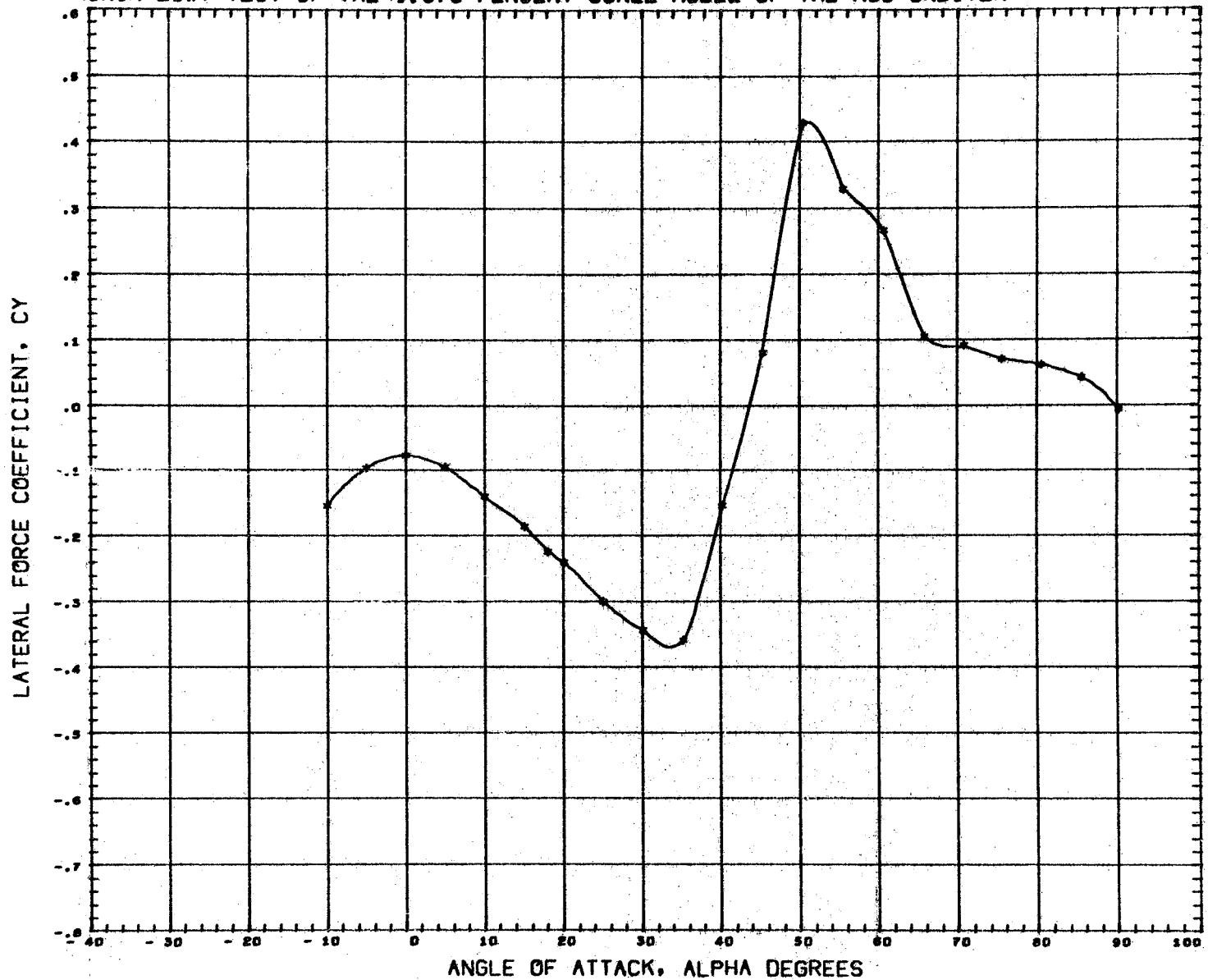
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REFERENCE INFORMATION		
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XHMRF	1.383700X10 ⁺⁰⁰	IN.
YHMRF	0.00000X10 ⁺⁰⁰	IN.
ZHMRF	2.46000X10 ⁻⁰²	IN.
SCALE	1.87500X10 ⁻⁰²	SCALE

L5WT 223 1.875 PC MOD S5 ORB. B1H6

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
 • 0.170 BETA 5.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 0.000

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ IN.
 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰¹ FT.
 XMRP 1.38570X10⁺⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁺⁰⁰ IN.
 SCALE 1.07900X10⁻⁰² SCALE

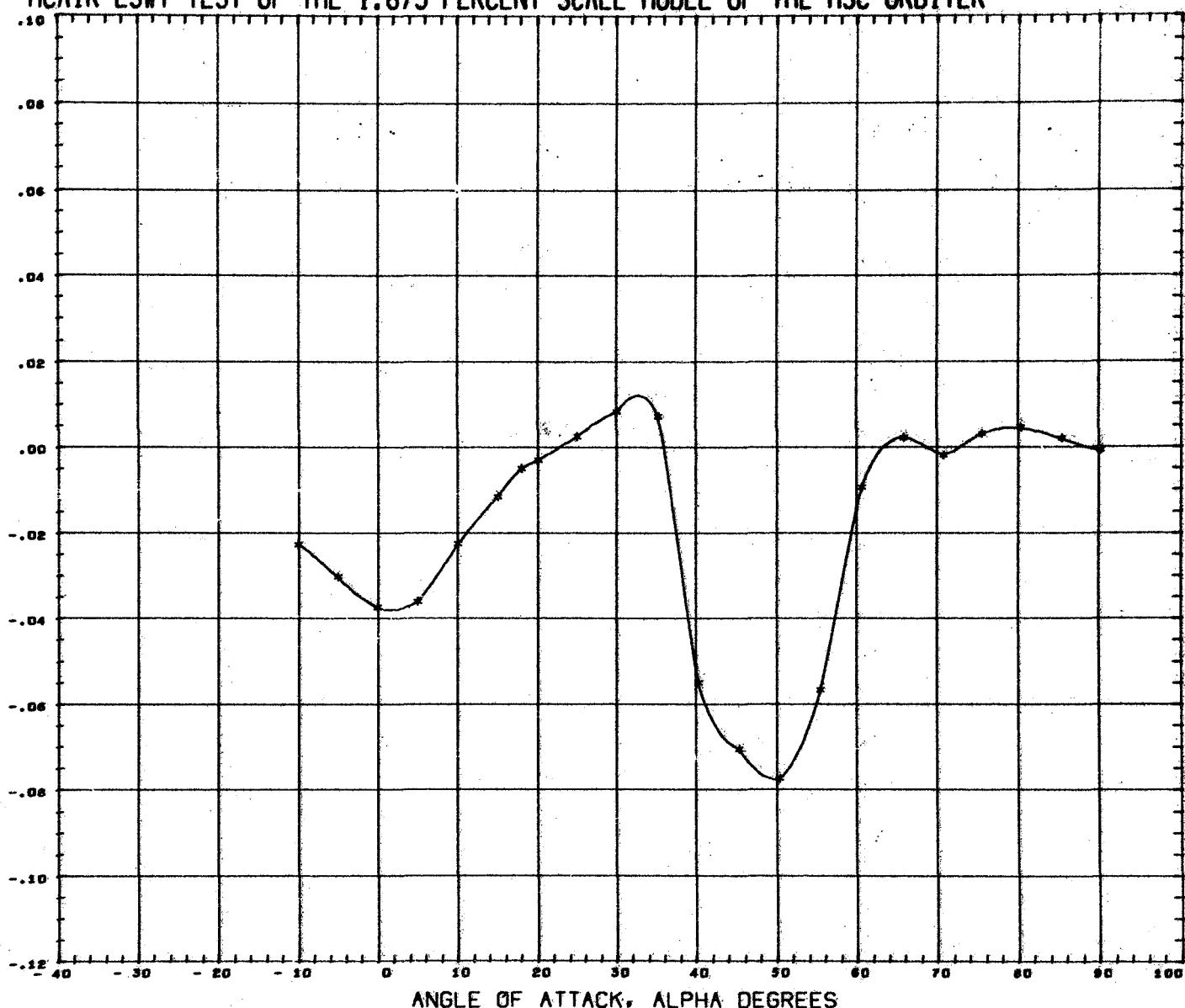
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LSWT 223 1.875 PC MOD S5 ORB. B1H6

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, C_{WN}



SYMBOL MACH. PARAMETRIC VALUES
 * 0.170 BETA 5.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 0.000

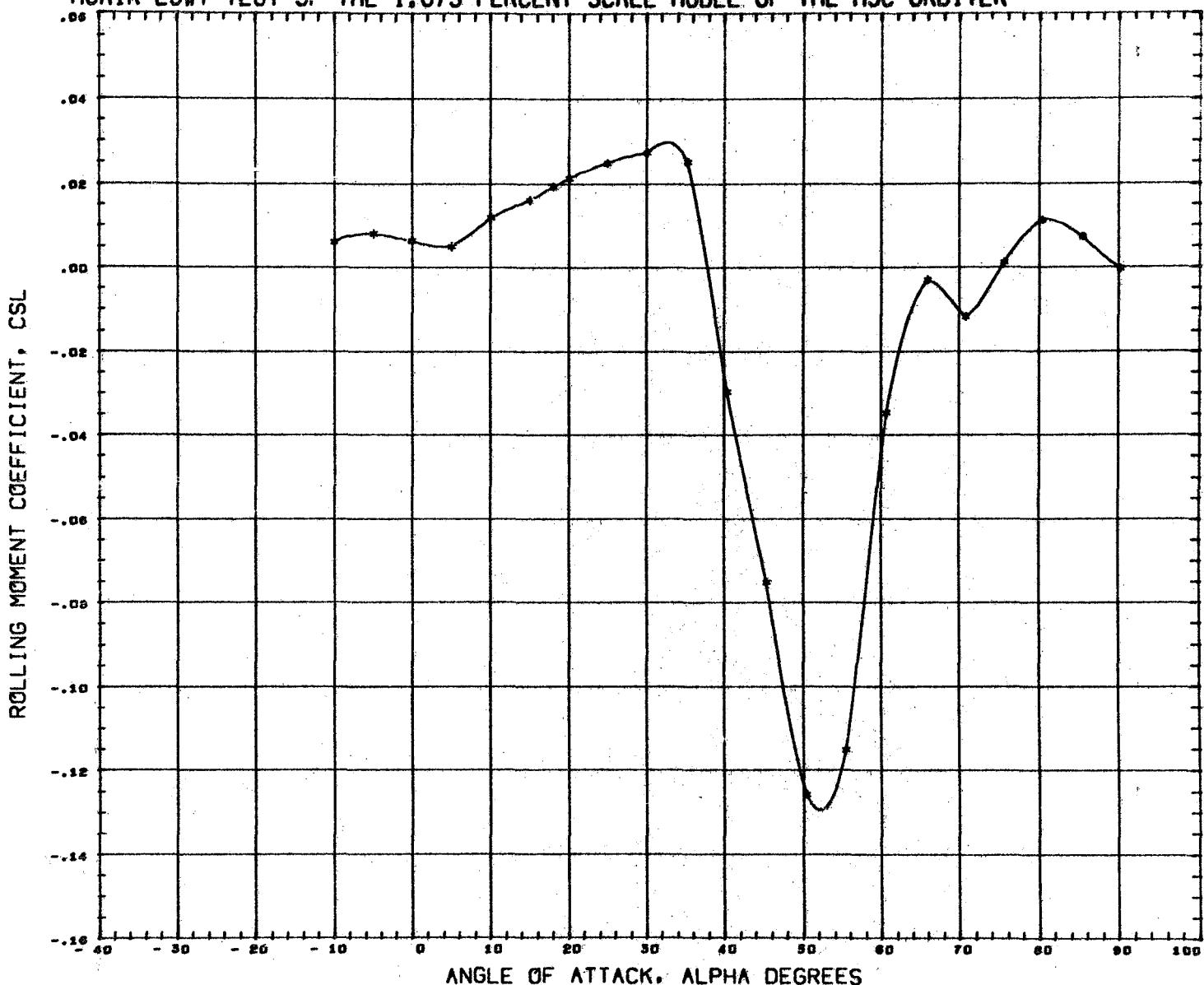
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LSWT 223 1.875 PC MOD S5 ORB. B1H6

REFERENCE INFORMATION
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 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XMRP 1.36370X10⁺⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁺⁰⁰ IN.
 SCALE 1.87500X10⁻⁰² SCALE

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



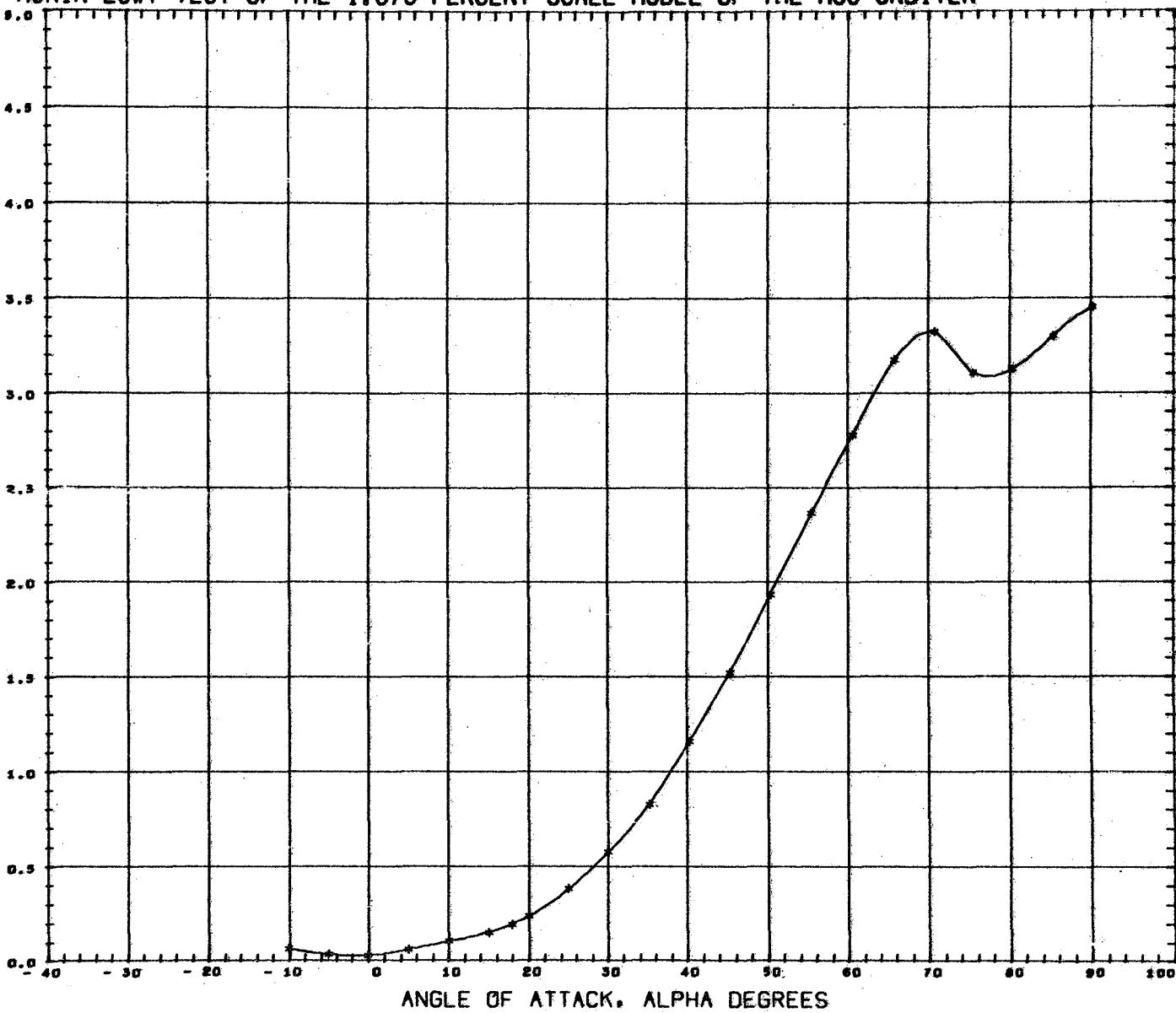
SYMBOL MACH PARAMETRIC VALUES
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ELEVTR 0.000 PHI 0.000
WINGL 0.000

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SG.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XNRP 1.38370X10⁺⁰¹ IN.
YNRP 0.00000X10⁺⁰⁰ IN.
ZNRP 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

TOTAL DRAG COEFFICIENT, CD



SYMBOL MACH PARAMETRIC VALUES
* 0.170. BETA 5.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 0.000

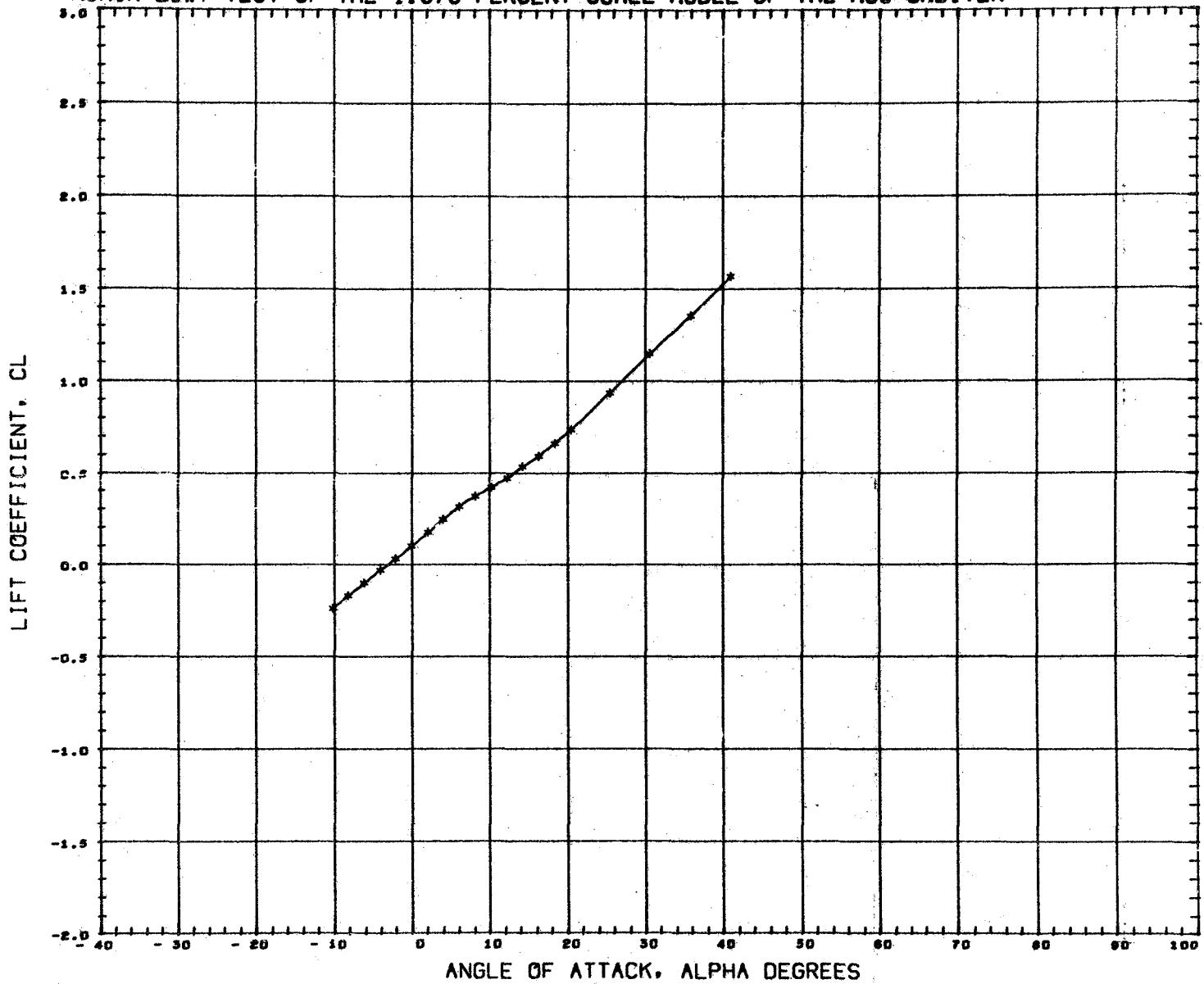
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REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



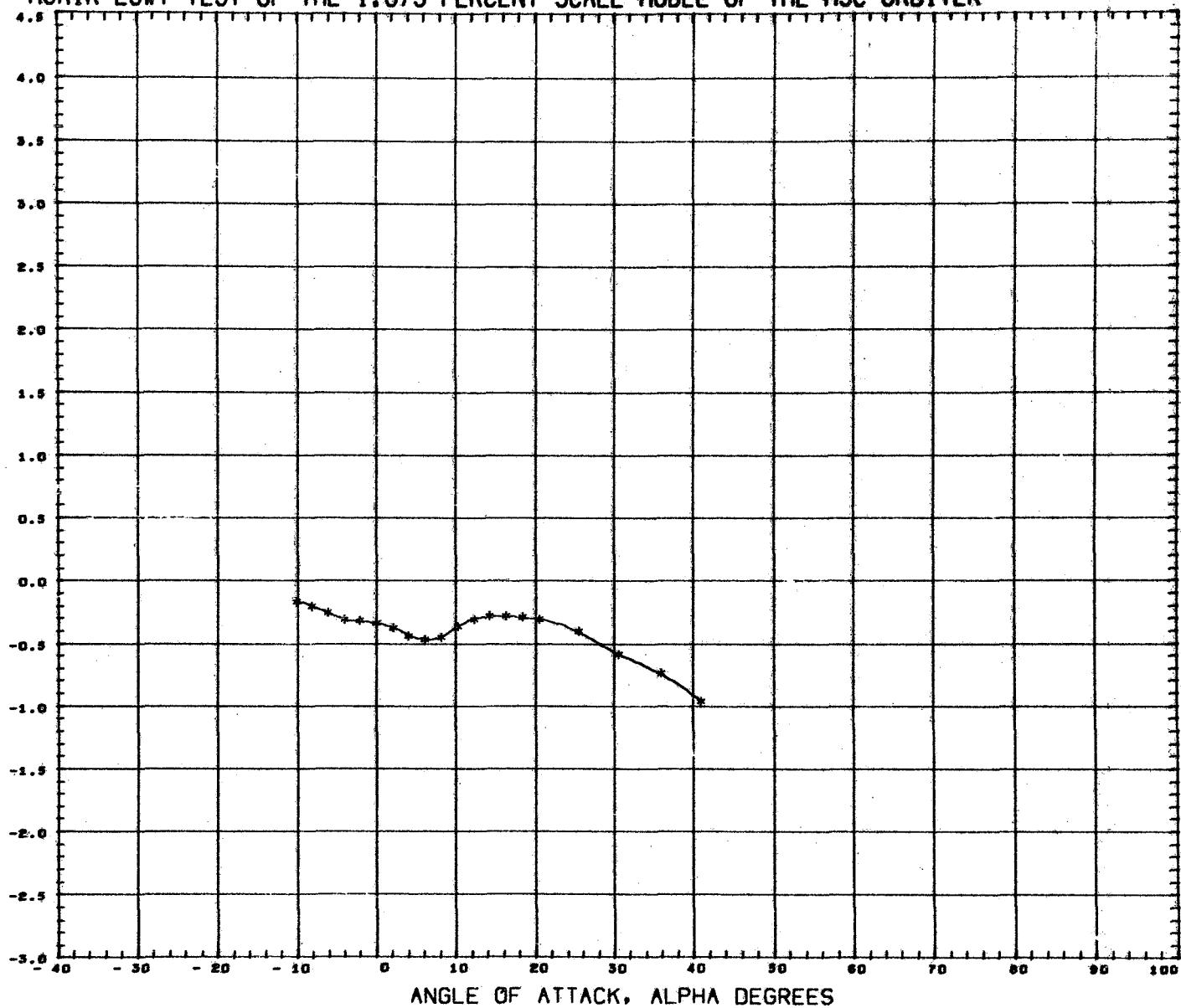
SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 10.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 0.000

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰¹ FT.
XMRP 1.38370X10⁺⁰⁰ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CM



SYMBOL MACH PARAMETRIC VALUES
 * 0.250 BETA 10.000 HTAIL 0.000
 ELEVTR. 0.000 PHI 0.000
 WINGL 0.000

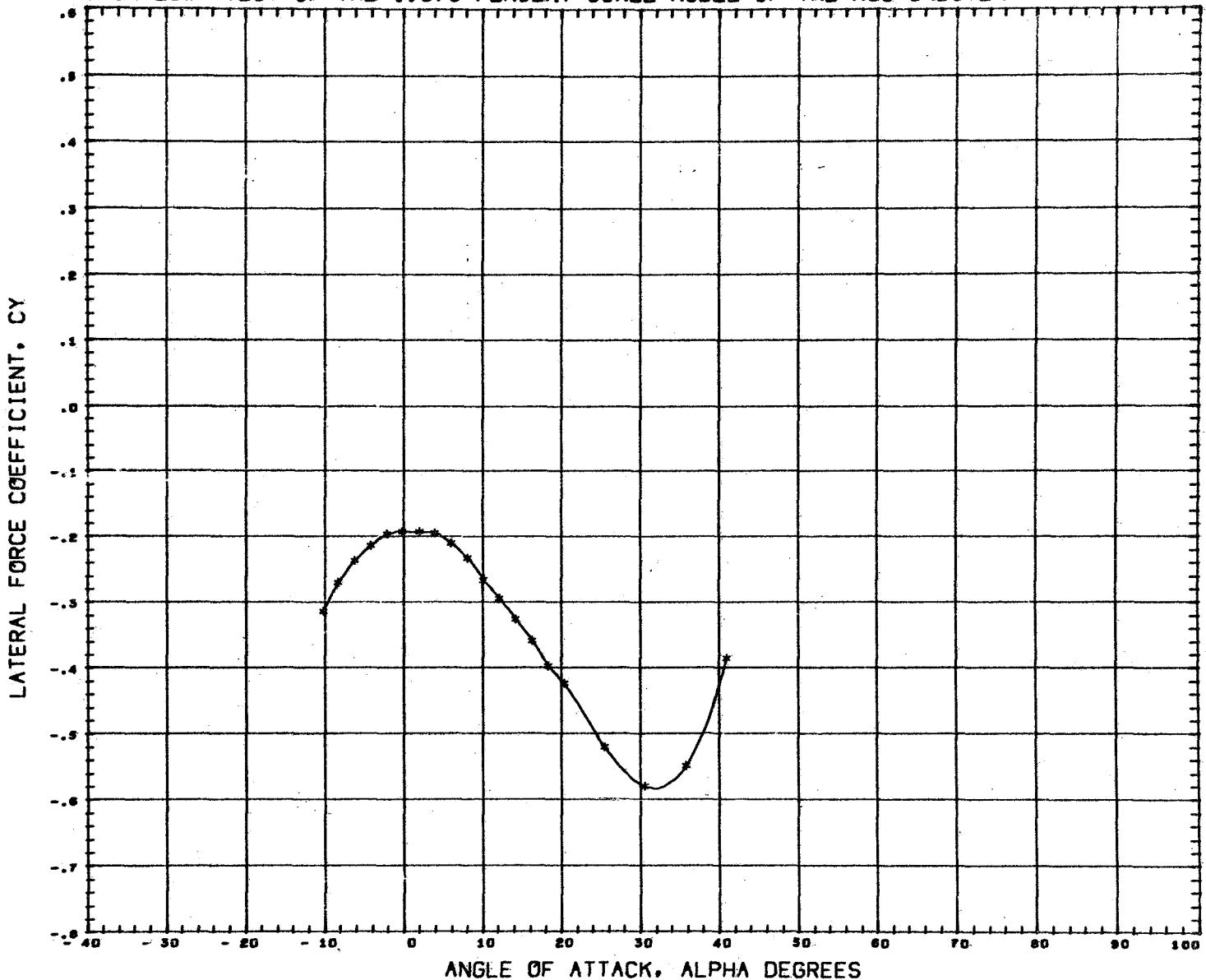
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REFERENCE INFORMATION
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 REFL 2.31700X10⁻⁰¹ Ft.
 REFB 1.50000X10⁻⁰⁰ Ft.
 XHRP 1.36370X10⁻⁰¹ In.
 YHRP 0.00000X10⁻⁰⁰ In.
 ZHRP 2.40000X10⁻⁰² In.
 SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES			
*	0.250	BETA	.10,000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	0.000		

REFERENCE FILE 38X 37100150

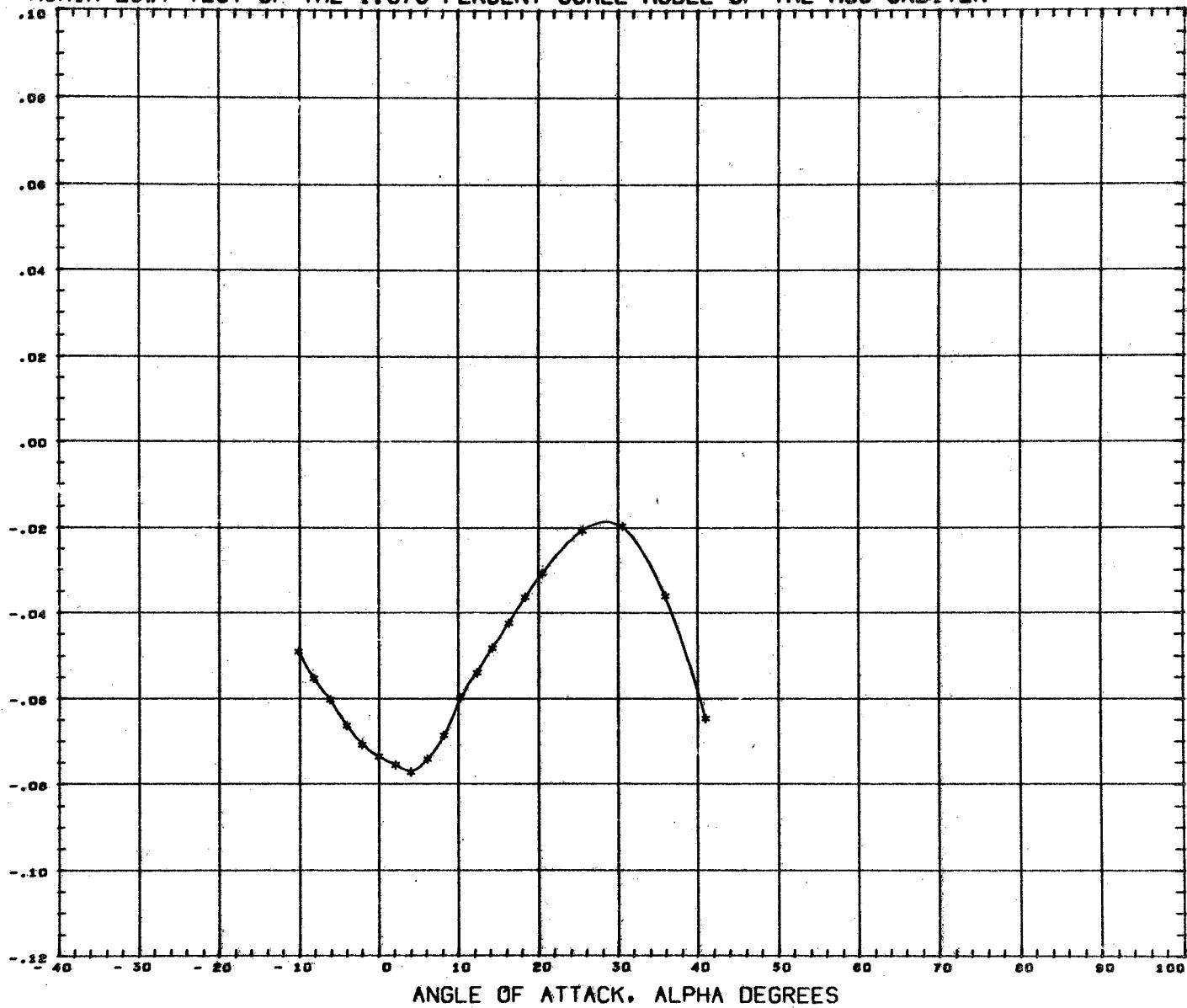
REFERENCE INFORMATION	
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REFL	2.31700×10^{-01}
REFB	$1.50000 \times 10^{+00}$
XMRP	$1.38370 \times 10^{+01}$
YMRP	$0.00000 \times 10^{+00}$
ZMRP	2.40000×10^{-02}
SCALE	1.87500×10^{-02}
	SCALE

L SWT 223 1.875 PC MOD S5 ORB. B1H6

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, CWN



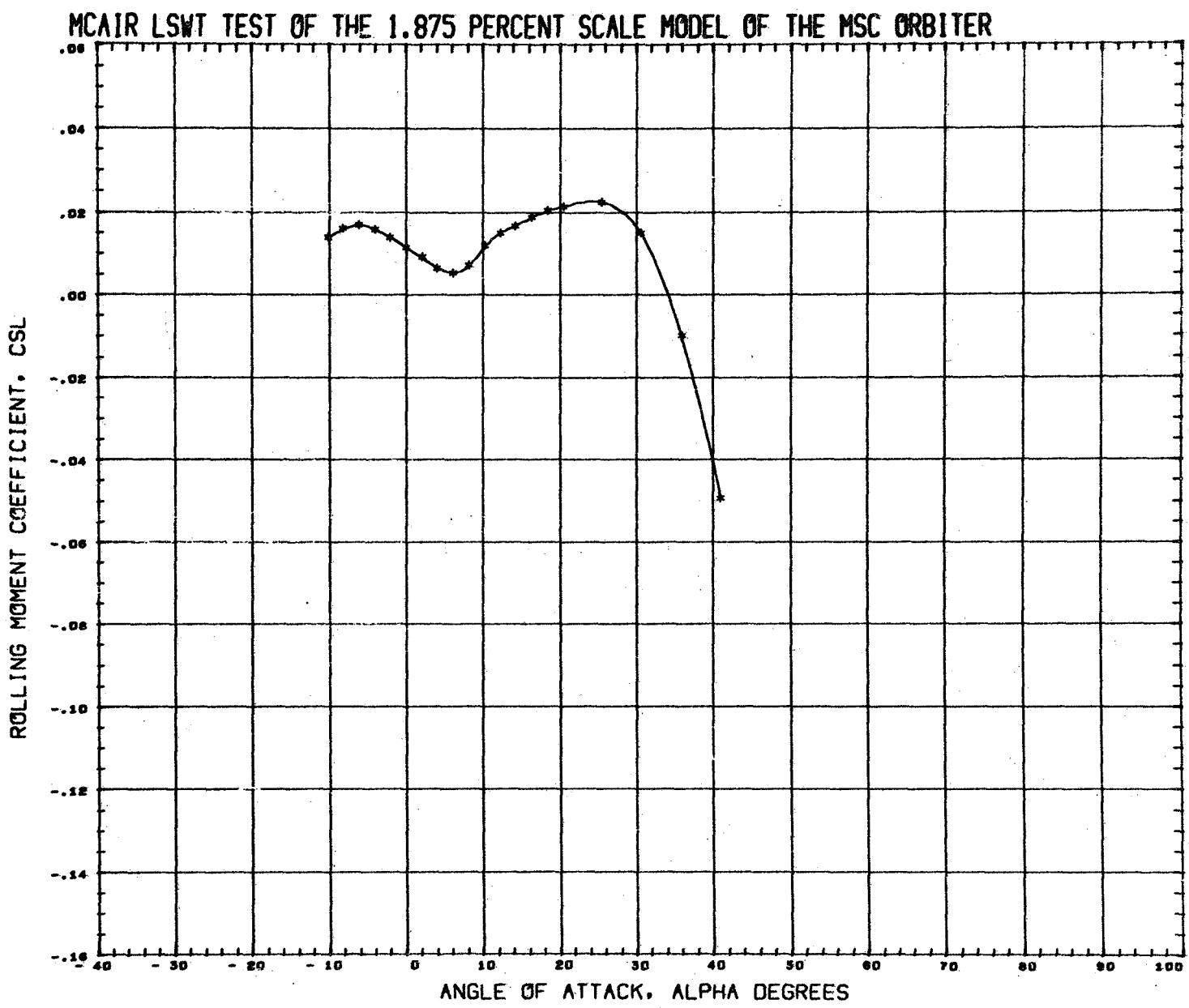
SYMBOL MACH PARAMETRIC VALUES
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 ELEVTR 0.000 PHI 0.000
 WINGL 0.000

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XHRF 1.38370X10⁺⁰¹ IN.
YHRP 0.00000X10⁺⁰⁰ IN.
ZHRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. BIH6

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SYMBOL HACH
* 0.250
PARAMETRIC VALUES
BETA 10.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 0.000

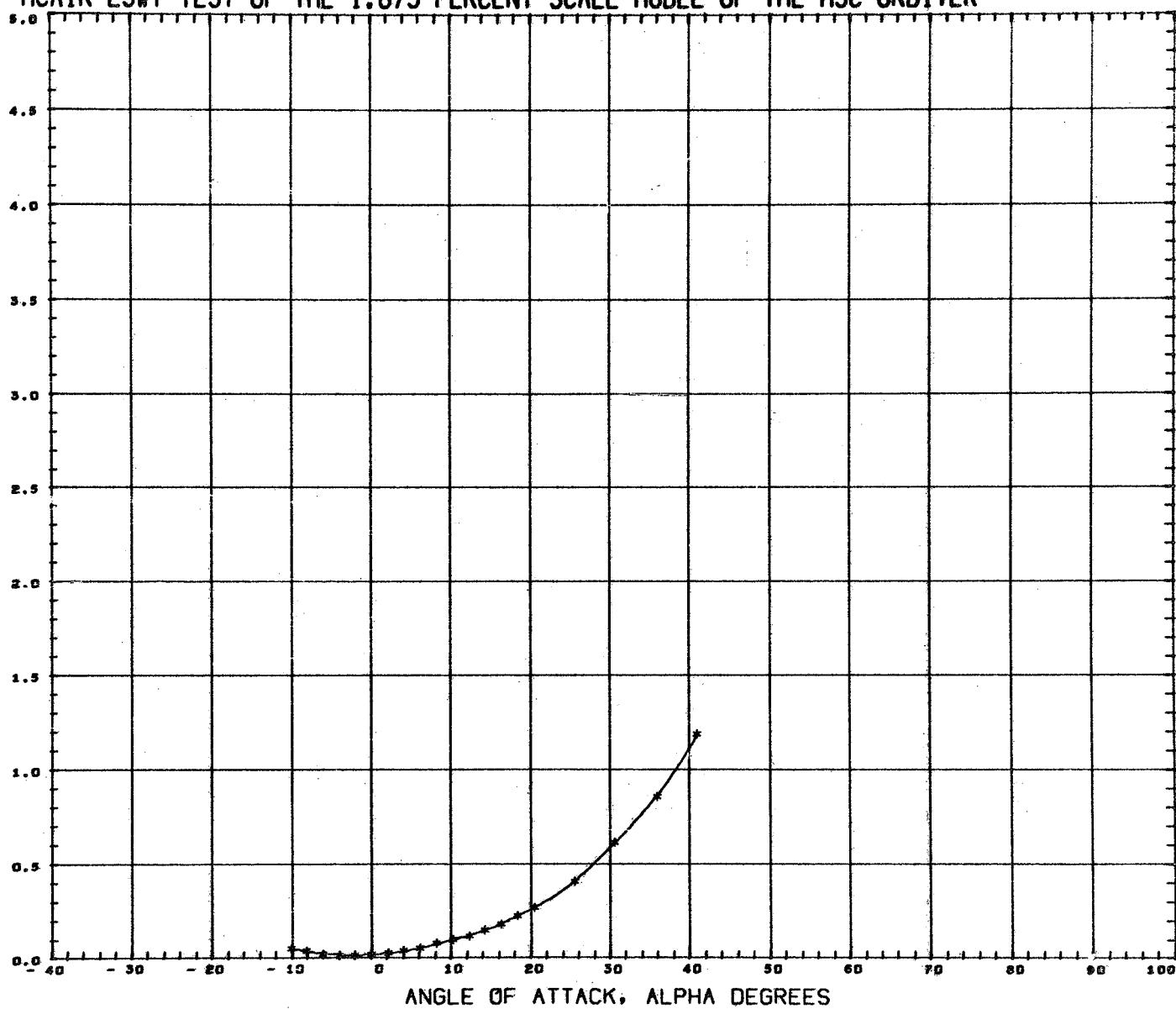
REFERENCE FILE SDY 37100150

LSWT 223 1.875 PC MOD S5 ORB. B1H6

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

TOTAL DRAG COEFFICIENT, CD



SYMBOL MACH PARAMETRIC VALUES
 * 0.250 BETA 10.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 0.000

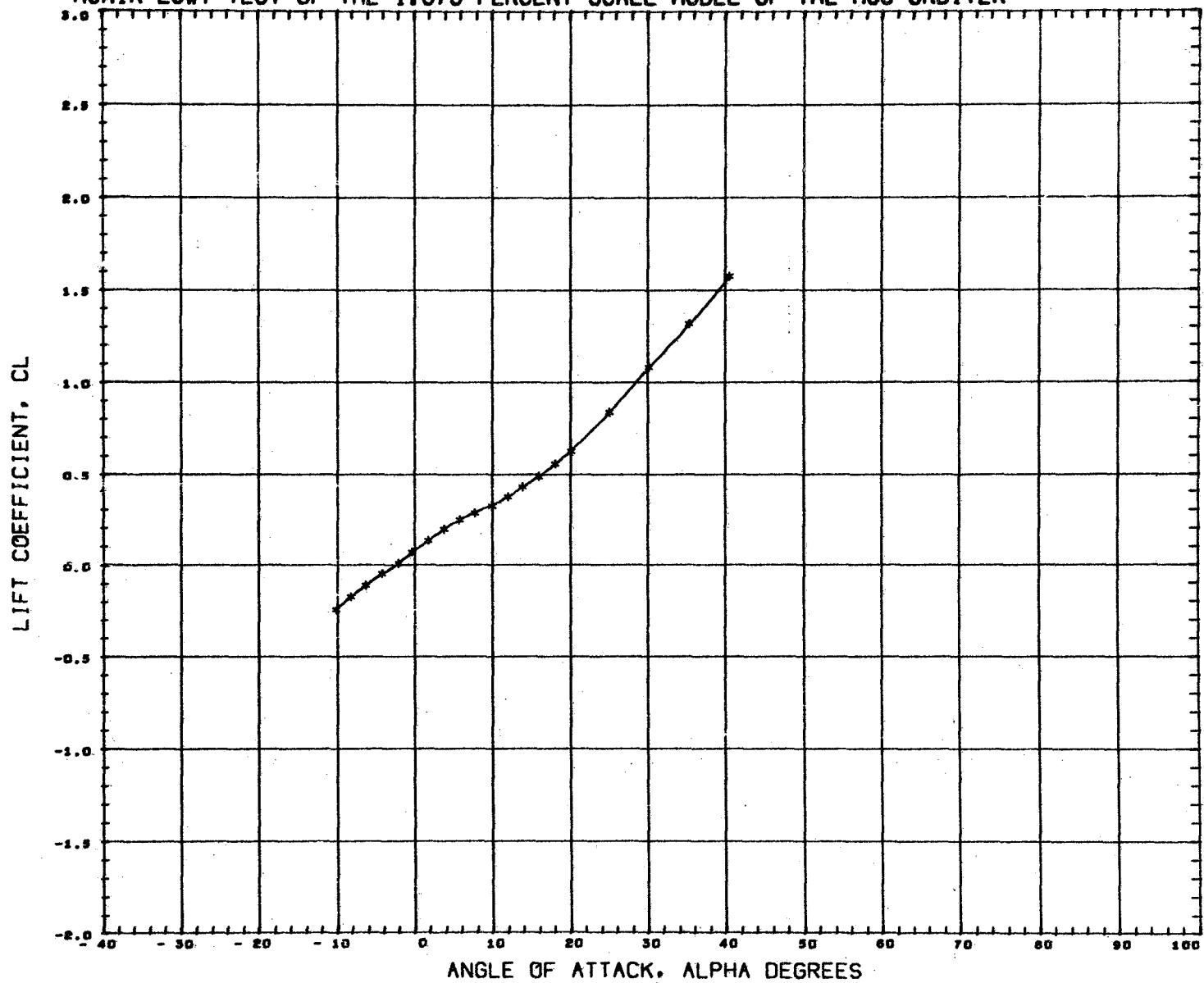
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LSWT 223 1.875 PC MOD S5 ORB. B1H6

REFERENCE INFORMATION
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 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XMRP 1.38370X10⁺⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



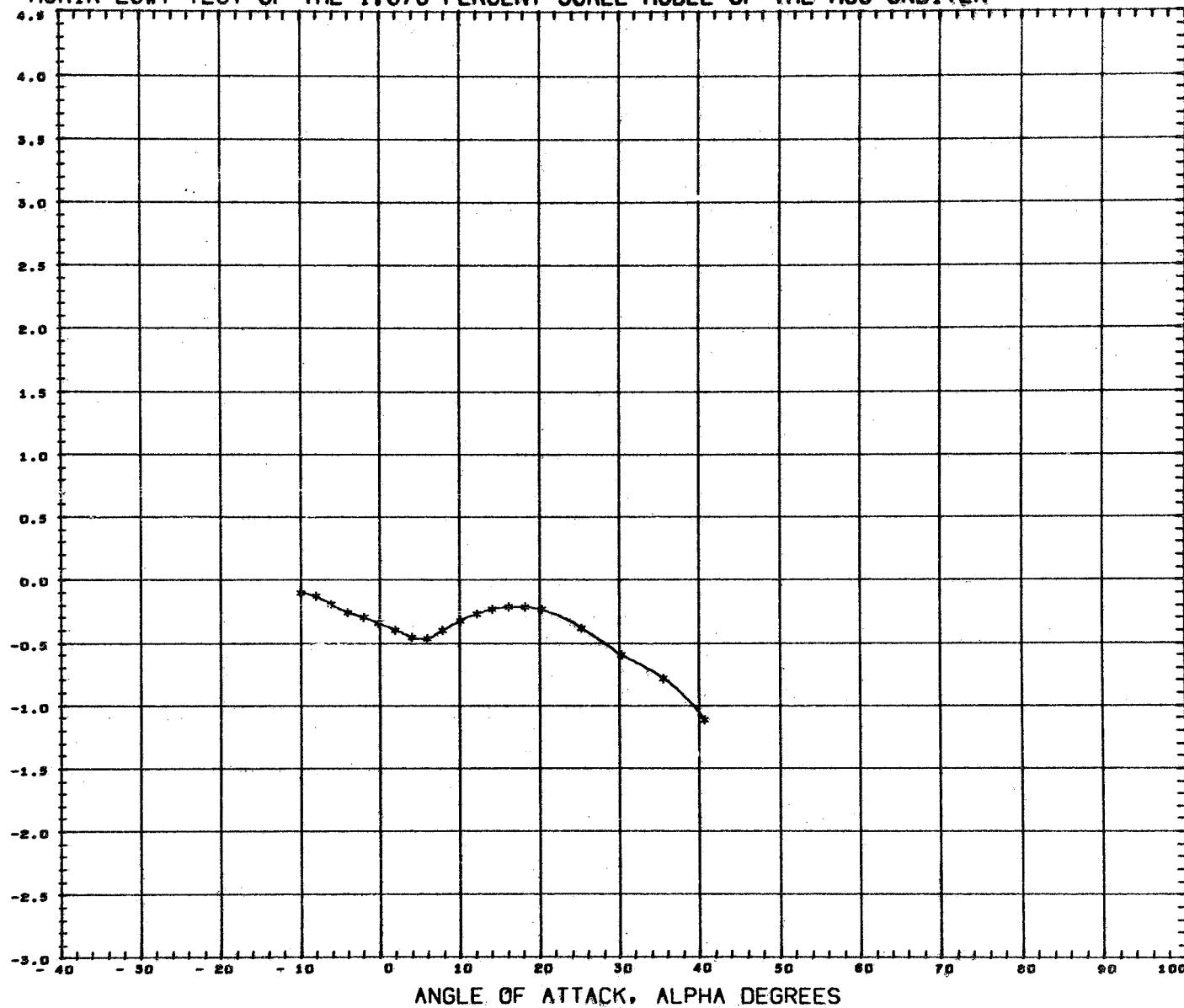
SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 5.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 0.000

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CNM



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES			
*	0.250	BETA	5.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	0.000		

REFERENCE FILE SDY 37100150

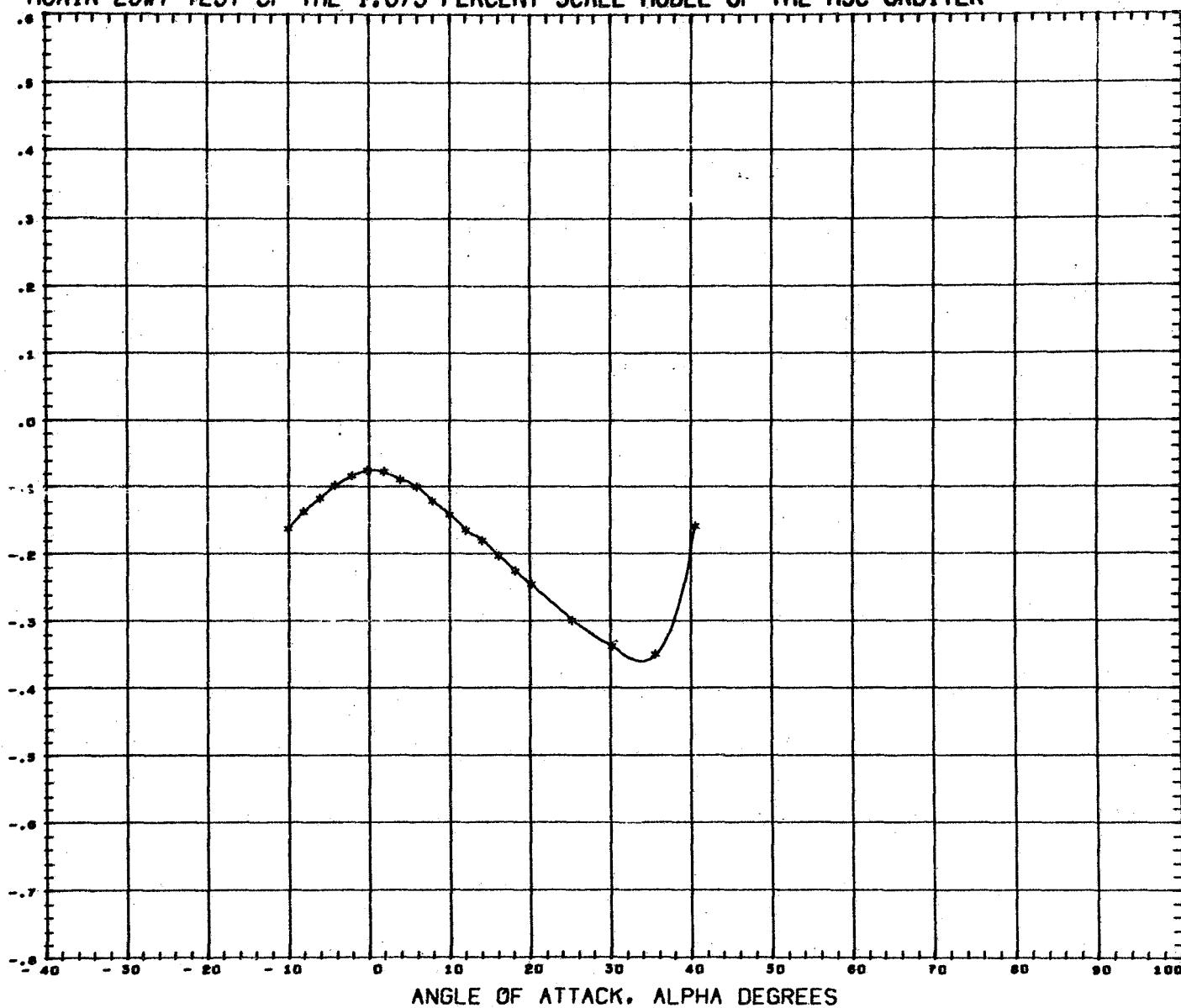
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REFB	$1.50000 \times 10^{+00}$ FT.
XHRF	$3.36370 \times 10^{+01}$ IN.
YHRF	$0.00000 \times 10^{+00}$ IN.
ZHRF	$2.40000 \times 10^{+00}$ IN.
SCALE	1.87500×10^{-02} SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

LATERAL FORCE COEFFICIENT, CY



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL MACH PARAMETRIC VALUES
 * 0.250 BETA 5.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 0.000

REFERENCE FILE SDY 37100150

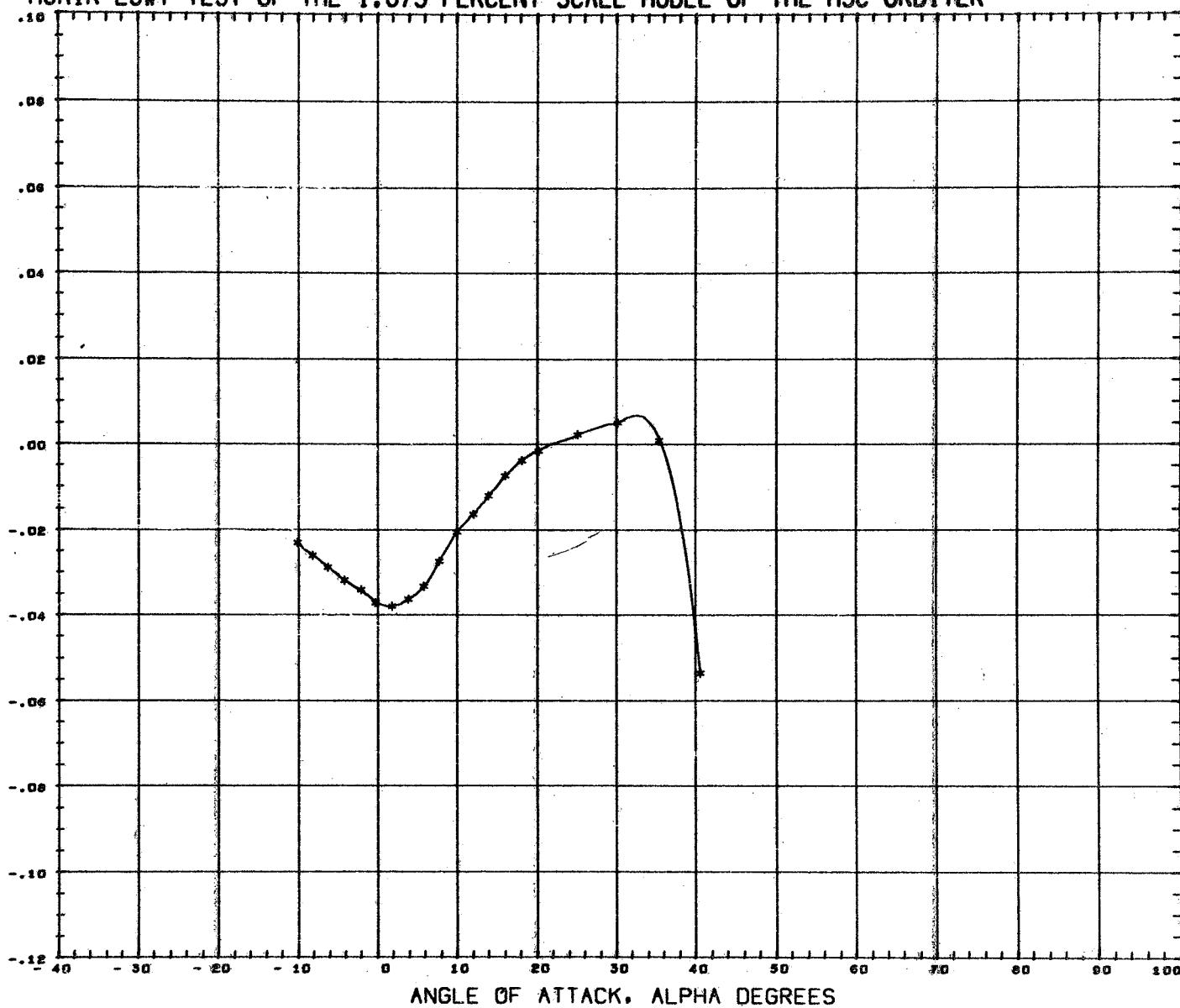
REFERENCE INFORMATION
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 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XMRP 1.58370X10⁺⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT - CWN



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES		
*	0.250	BETA	5.000	HTAIL 0.000
		ELEVTR	0.000	PHI 0.000
		WINGL	0.000	

REFERENCE FILE SDY 37100150

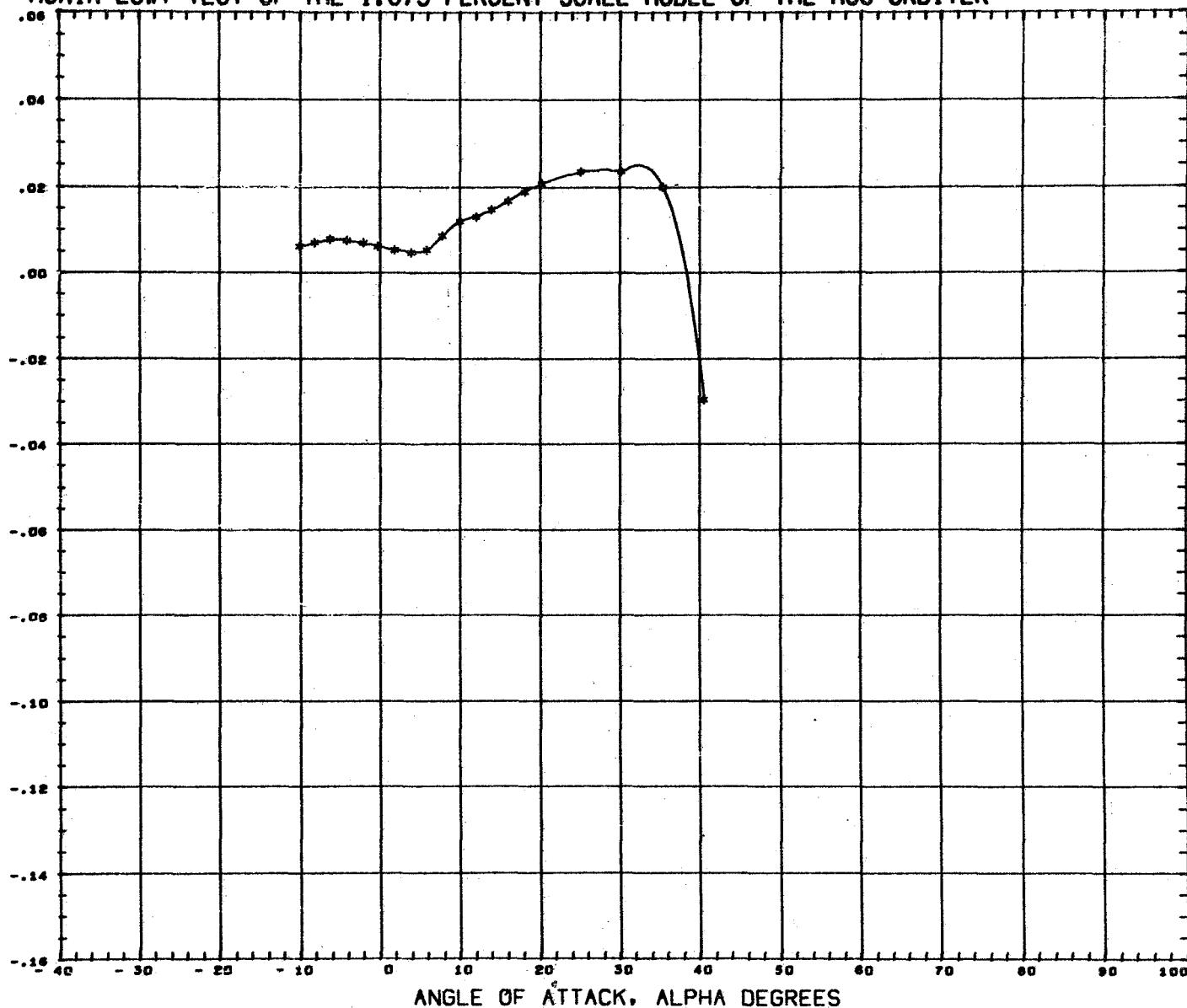
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REFL	2.31700X10 ⁺⁰⁰	FT.
REFB	1.50000X10 ⁺⁰¹	FT.
XMRP	1.38370X10 ⁺⁰⁰	IN.
YMRP	0.00000X10 ⁺⁰⁰	IN.
ZMRP	2.40000X10 ⁺⁰⁰	IN.
SCALE	1.87500X10 ⁻⁰²	SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

ROLLING MOMENT COEFFICIENT, CSL



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES		
*	0.250	BETA	5.000	HTAIL 0.000
		ELEVTR	0.000	PHI 0.000
		WINGL	0.000	

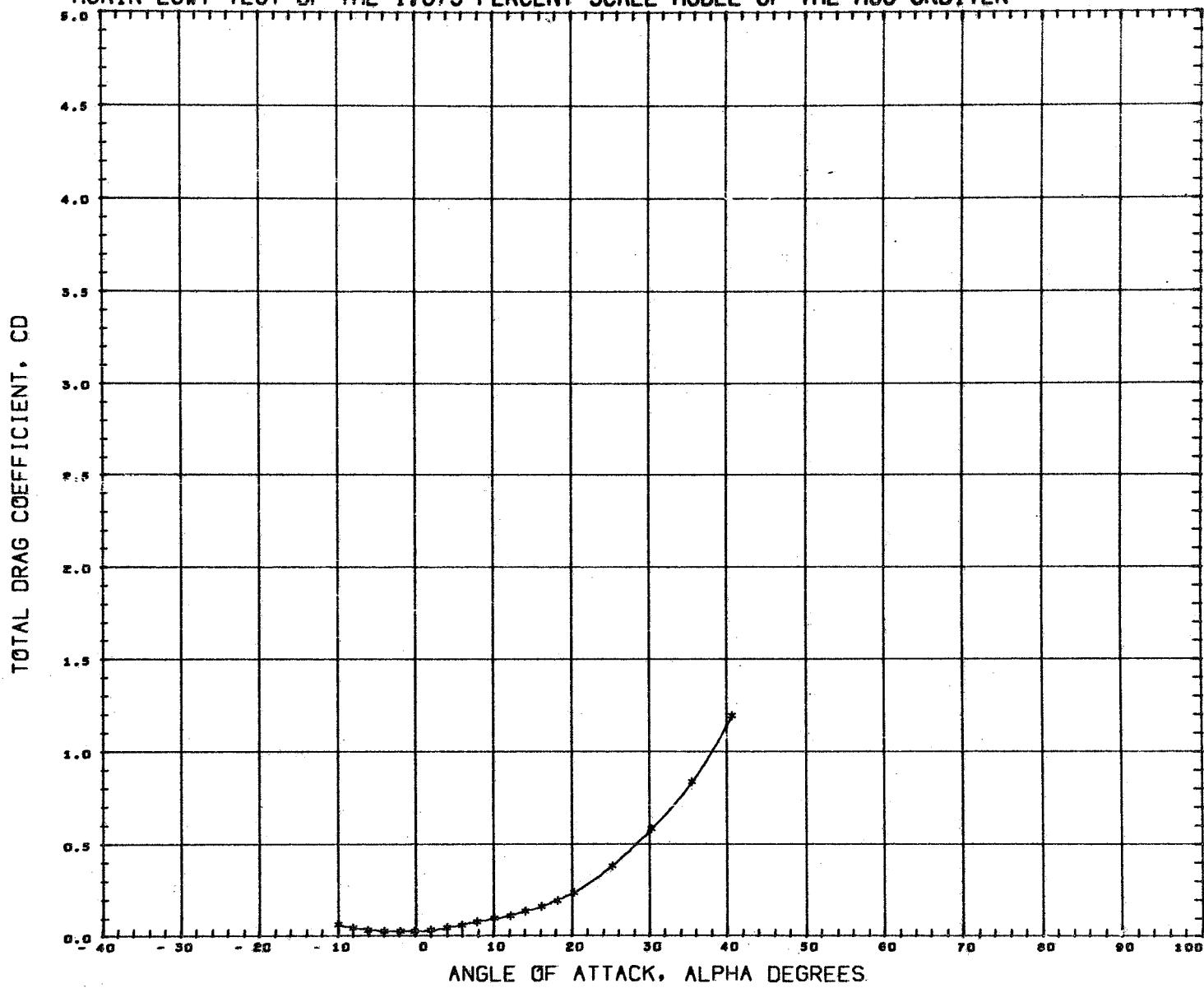
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION	
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REFL	$2.31700 \times 10^{+01}$ FT.
REFB	$1.50000 \times 10^{+00}$ FT.
XMRP	1.38370×10^{-01} IN.
YMRP	$0.00000 \times 10^{+00}$ IN.
ZMRP	$2.40000 \times 10^{+00}$ IN.
SCALE	1.87500×10^{-02} SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.250 BETA 5.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 0.000

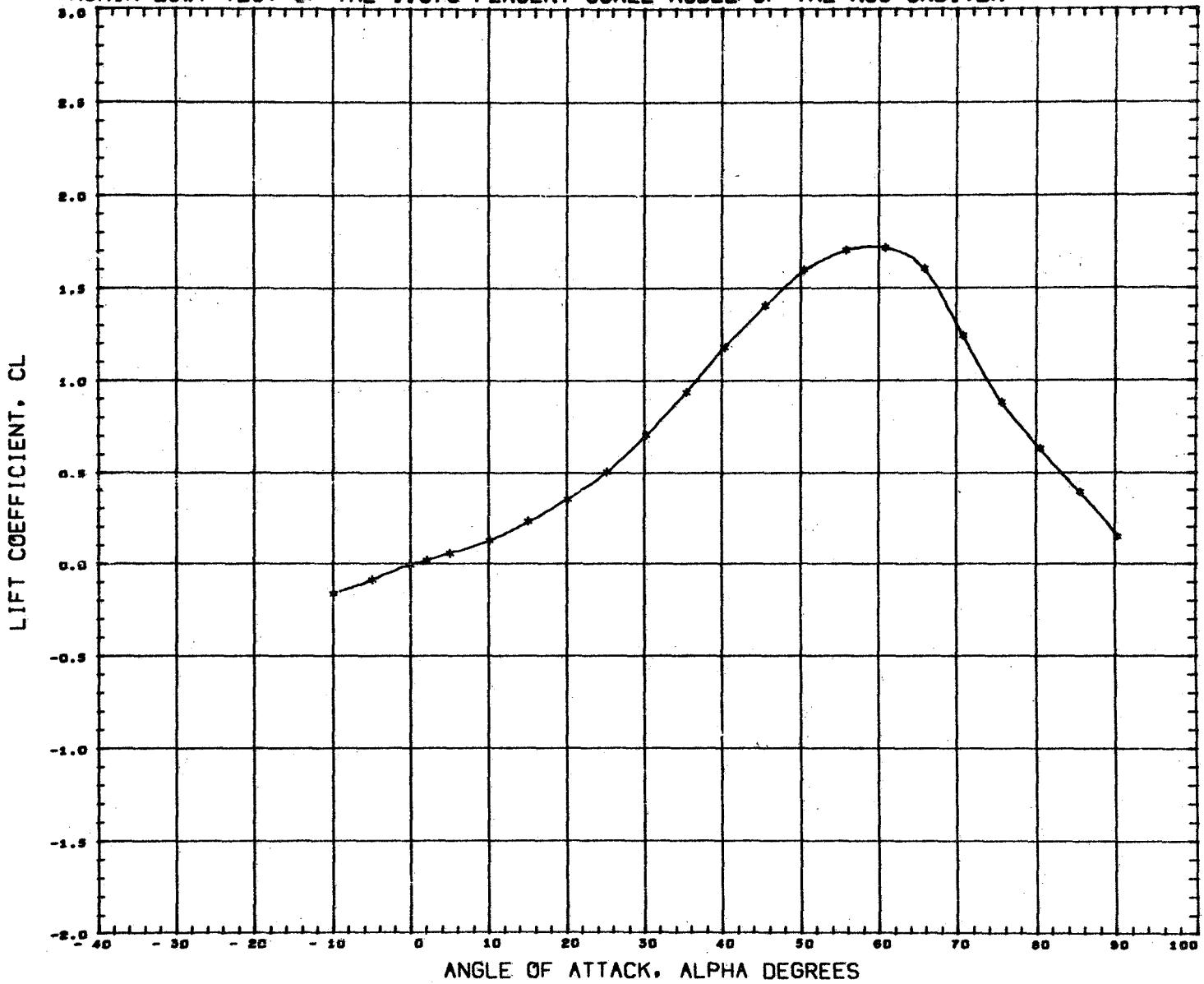
REFERENCE INFORMATION
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REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XHRF 1.36370X10⁺⁰⁰ IN.
YHRF 0.00000X10⁺⁰⁰ IN.
ZHRF 2.40000X10⁺⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 57100150

LSWT 223 1.875 PC MOD S5 ORB. B1HG

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES

*	0.170	BETA	5.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	0.000		

REFERENCE FILE SDY 37100150

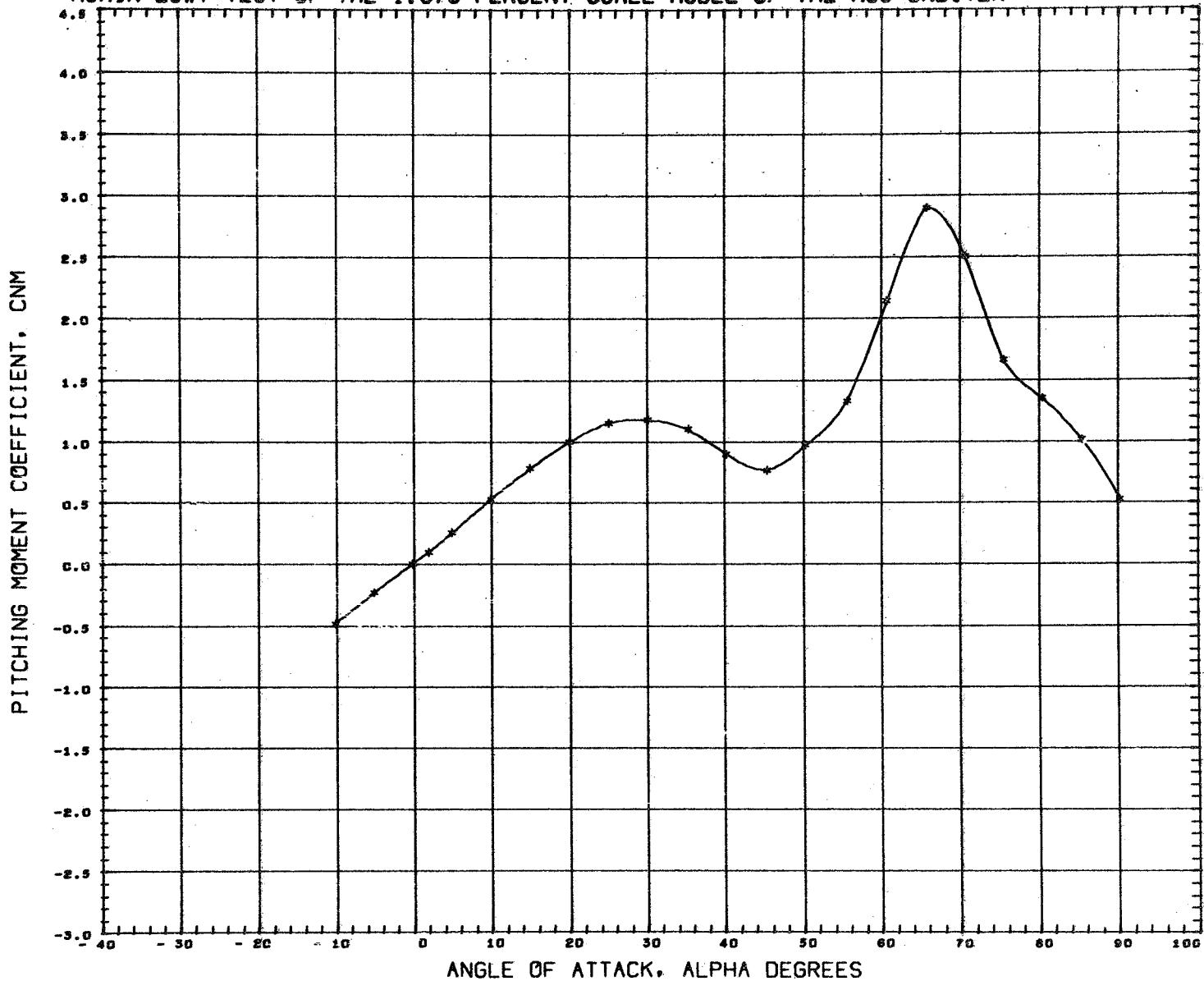
REFERENCE INFORMATION

REFS	3.20000×10^{-01}	SG. FT.
REFL	2.31700×10^{-01}	FT.
REFB	$1.50000 \times 10^{+00}$	FT.
XMRP	$1.38570 \times 10^{+01}$	IN.
YMRP	$0.00000 \times 10^{+00}$	IN.
ZMRP	$2.40000 \times 10^{+00}$	IN.
SCALE	1.67500×10^{-02}	SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1

(RC1003) 28 JUL 70 PAGE 299

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 5.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 0.000

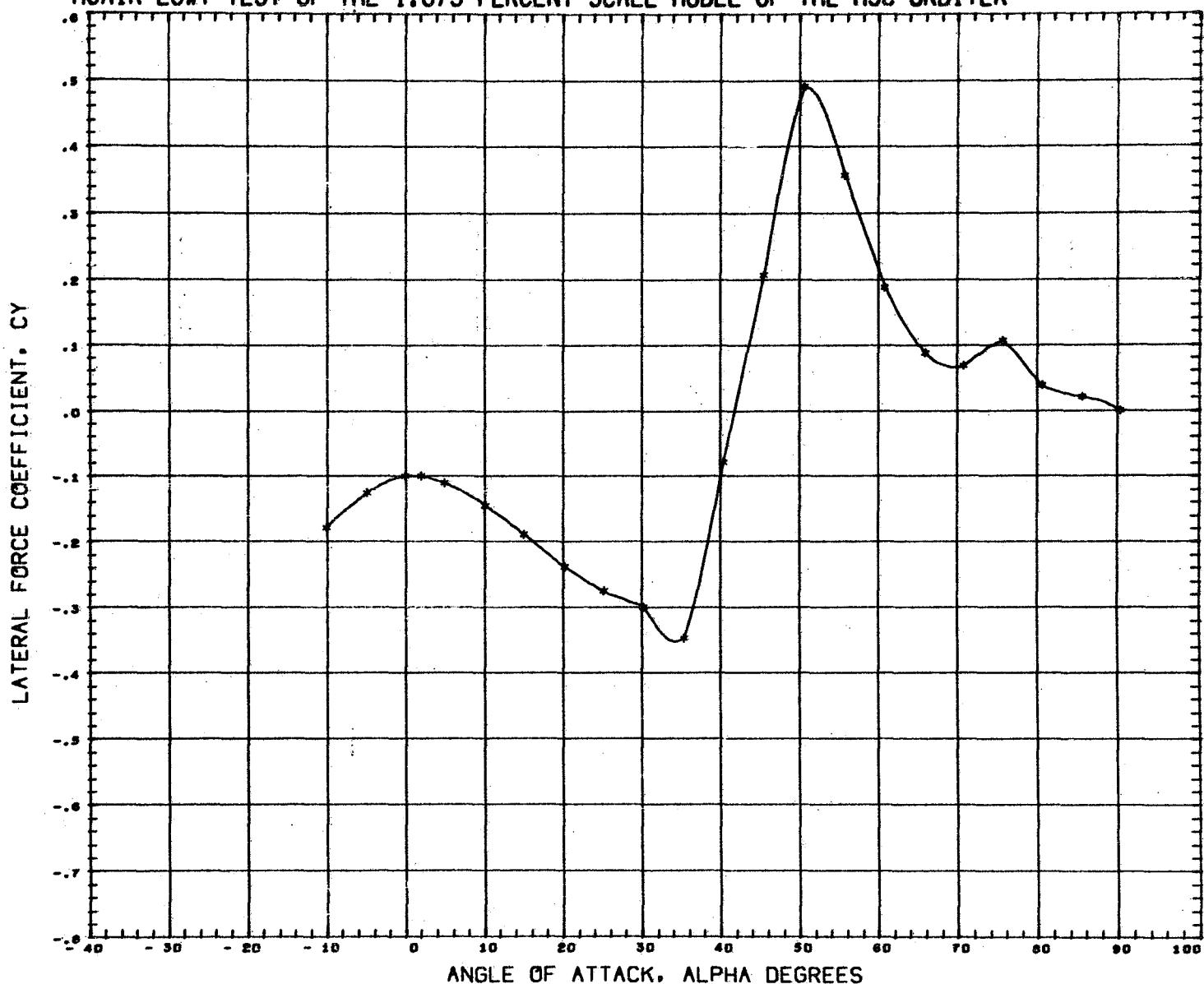
REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ LB.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XMRP 1.38570X10⁺⁰⁰ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

REFERENCE FILE SDY 37100130

LSWT 223 1.875 PC MOD S5 ORB. B1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES		
*	0.170	BETA	5.000	HTAIL 0.000
		ELEVTR	0.000	PHI 0.000
		WINGL	0.000	

REFERENCE FILE SDY 37100150

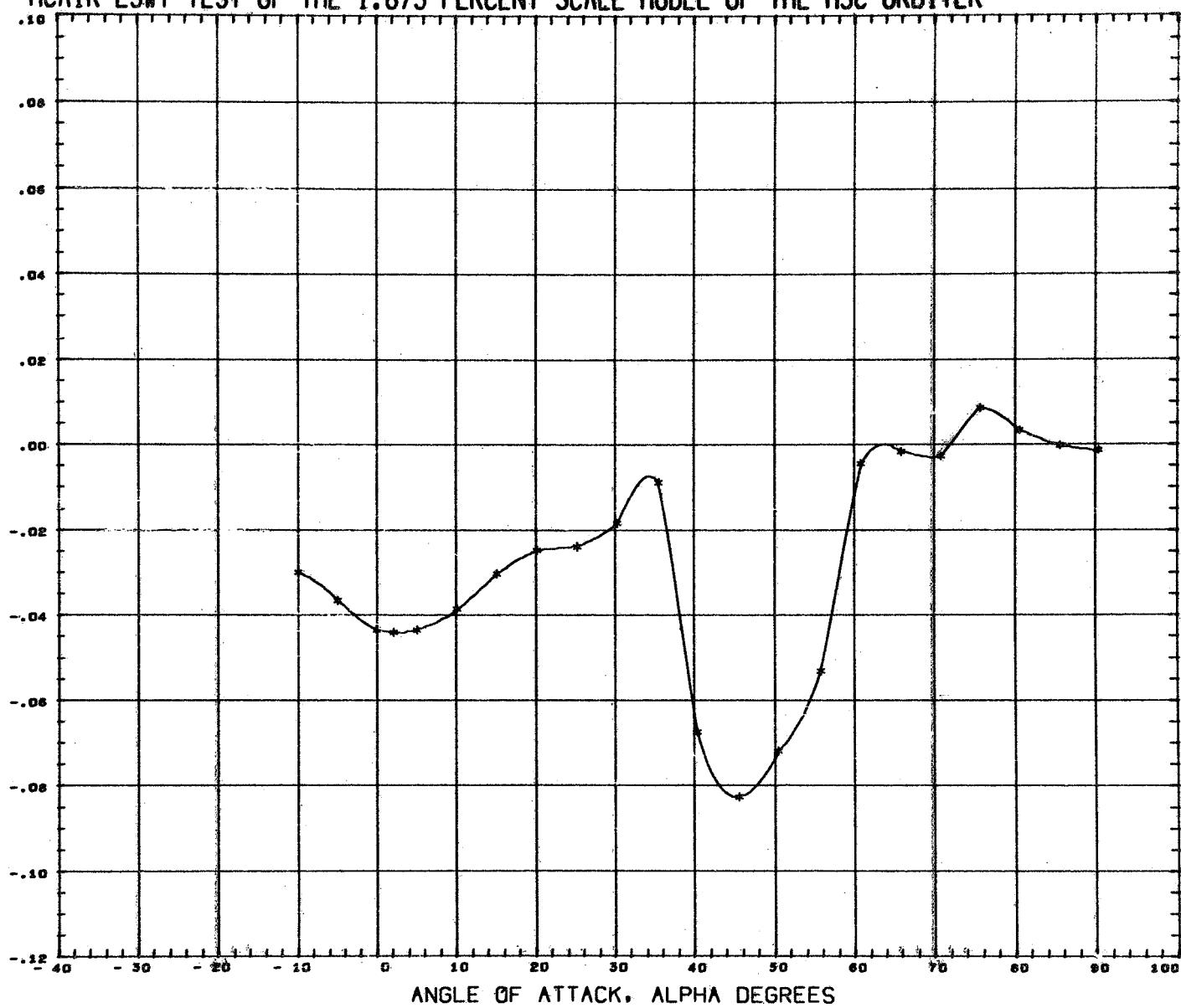
REFERENCE INFORMATION	
REFS	3.20800×10^{-01} SQ.FT.
REFL	$2.31700 \times 10^{+01}$ FT.
REFB	$1.50000 \times 10^{+00}$ FT.
XHRP	$1.38370 \times 10^{+01}$ IN.
YHRP	$0.00000 \times 10^{+00}$ IN.
ZHRP	$2.40000 \times 10^{+00}$ IN.
SCALE	1.87500×10^{-02} SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, CWN



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	3.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	0.000		

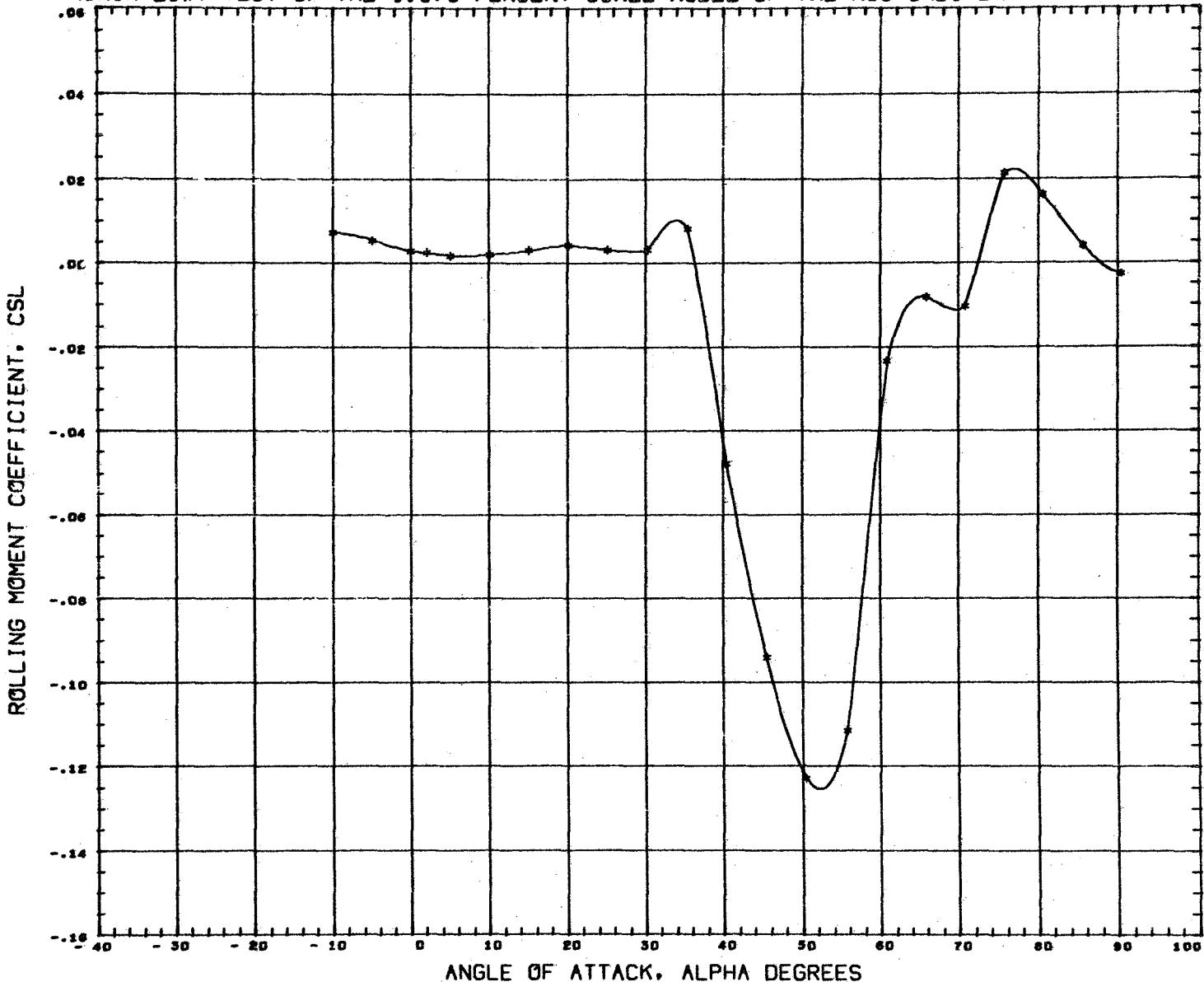
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION		
REFS	3.20800X10 ⁻⁰¹	SQ.FT.
REFL	2.31700X10 ⁺⁰⁰	FT.
REFB	1.50000X10 ⁺⁰¹	FT.
XMRP	1.38370X10 ⁺⁰⁰	IN.
YMRP	0.00000X10 ⁺⁰⁰	IN.
ZMRP	2.40000X10 ⁻⁰²	IN.
SCALE	1.87500X10 ⁻⁰²	SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

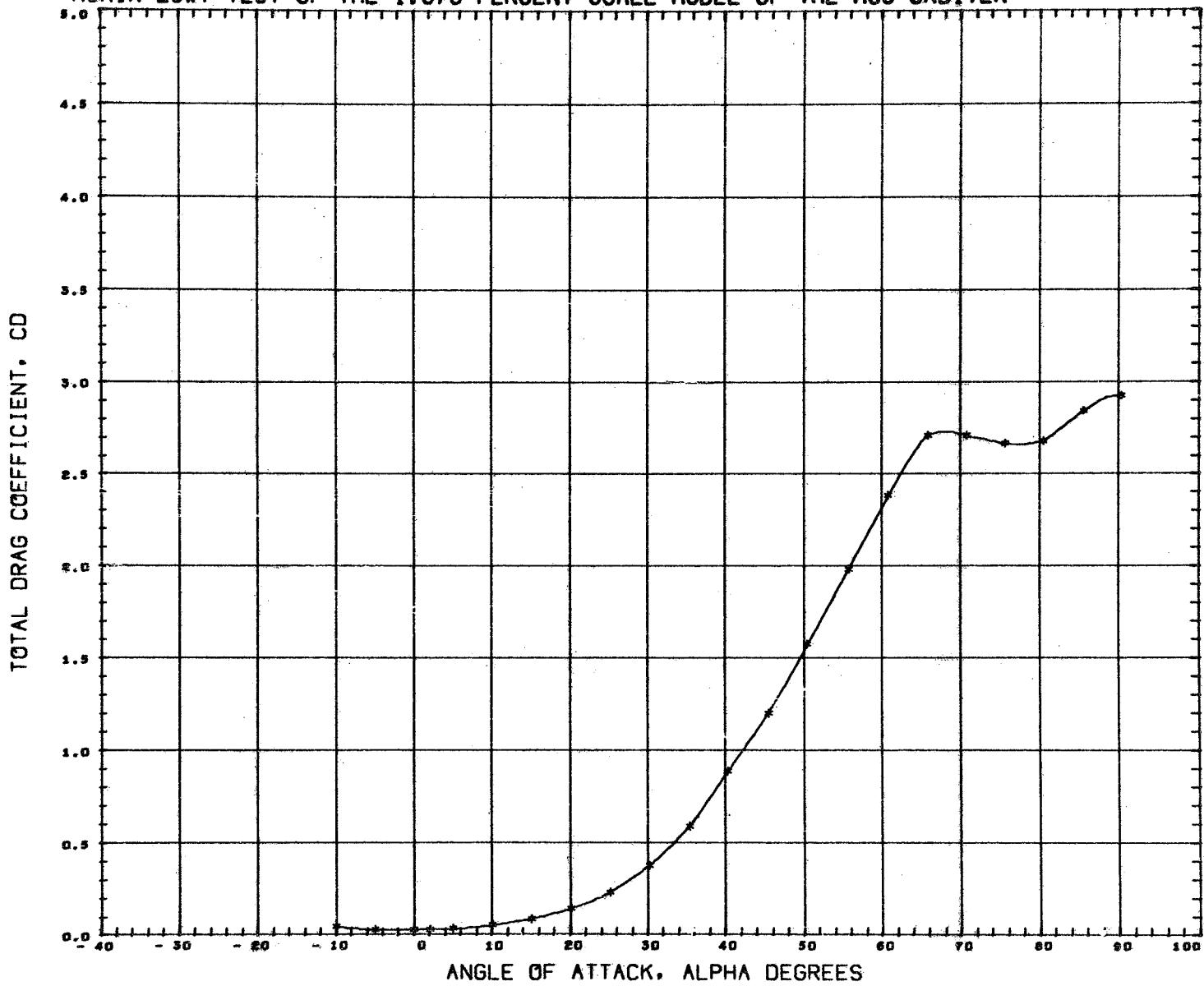


SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	5.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	0.000		

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION		
REFS	3.20000×10^{-01}	SQ.FT.
REFL	2.31700×10^{-02}	FT.
REFB	$1.50000 \times 10^{+00}$	FT.
XMRP	$1.38370 \times 10^{+00}$	IN.
YMRP	$0.00000 \times 10^{+00}$	IN.
ZMRP	2.40000×10^{-02}	IN.
SCALE	1.87500×10^{-02}	SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
 * 0.170 BETA 5.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 0.000

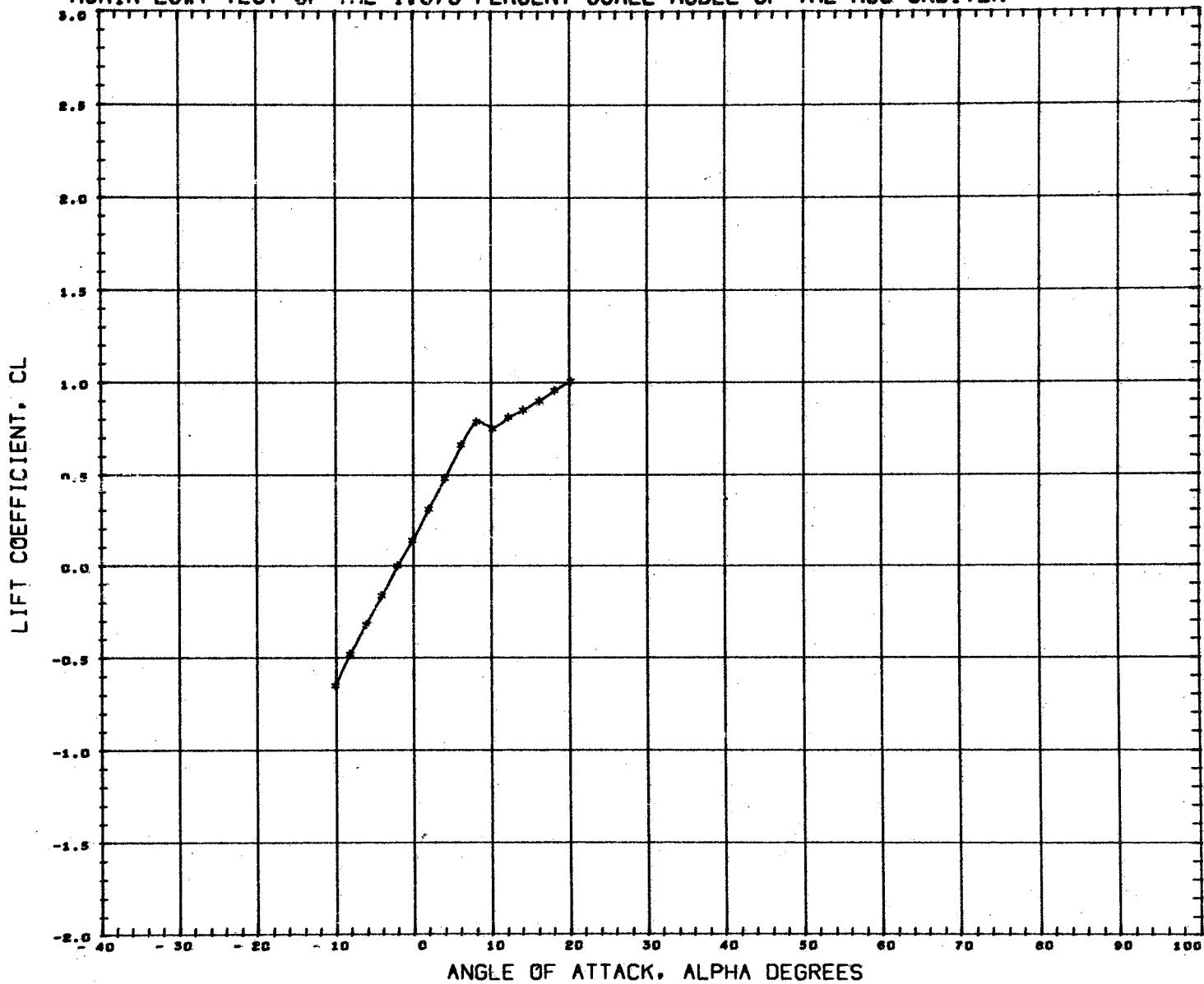
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁺⁰⁰ FT.
 REFB 1.50000X10⁺⁰¹ FT.
 XMRP 1.36370X10⁺⁰⁰ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



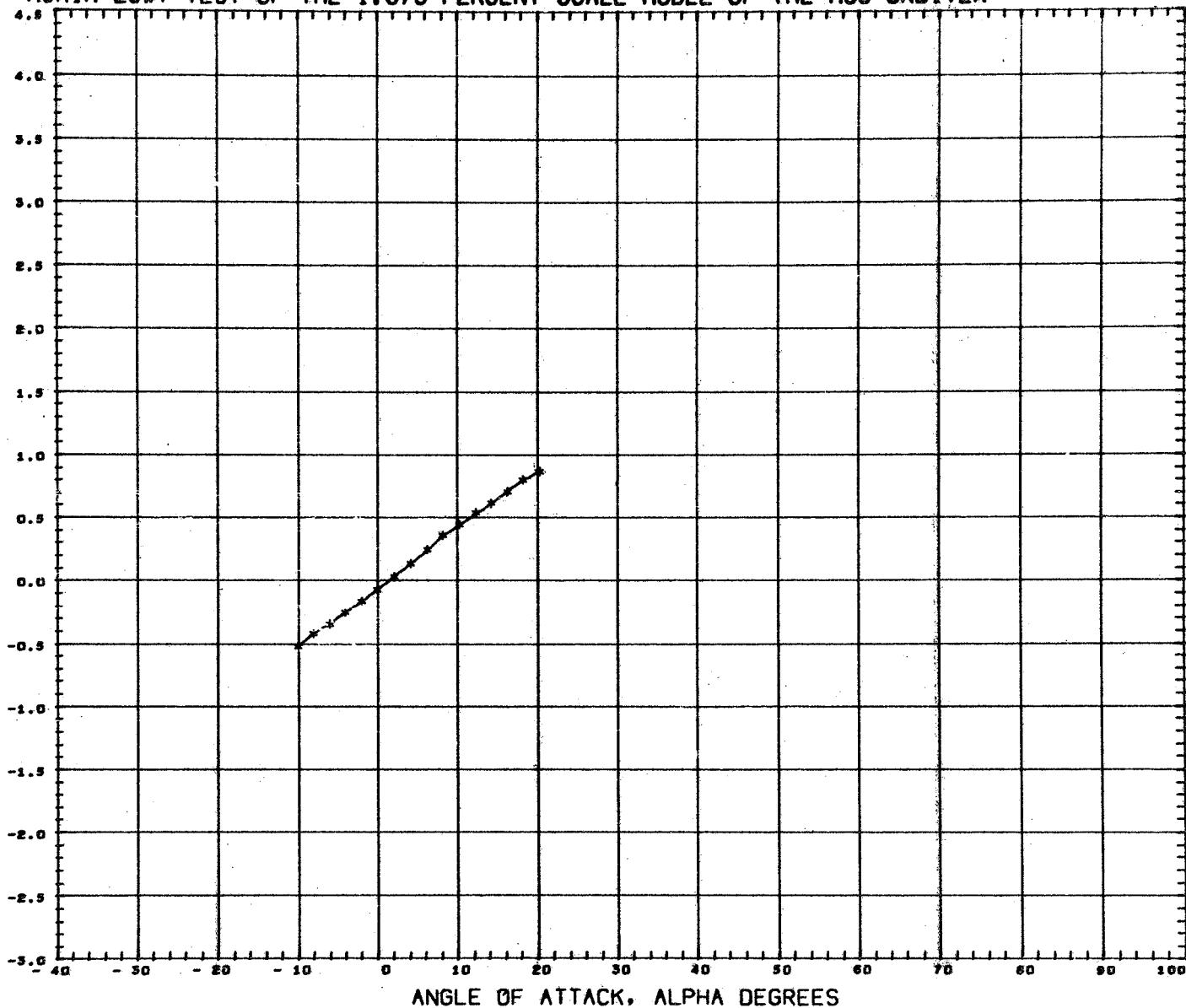
SYMBOL MACH PARAMETRIC VALUES
 • 0.170 BETA 0.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XMRP 1.38370X10⁺⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CNM



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES		
*	0.170	BETA	0.000	HTAIL 0.000
		ELEVTR	0.000	PHI 0.000
		WINGL	12.211	

REFERENCE FILE SDY 37100150

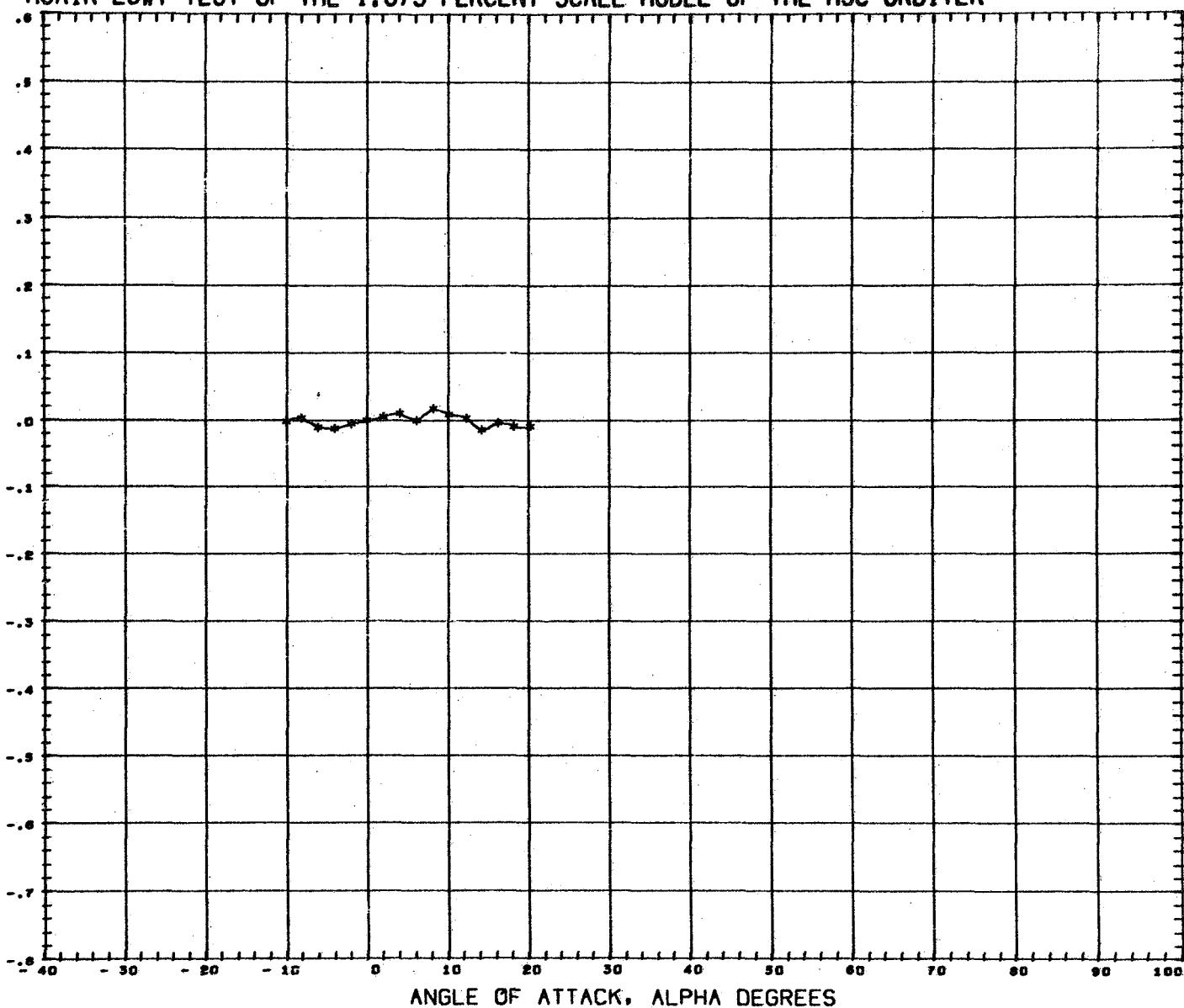
LSWT 223 1.875 PC MOD S5 ORB. B1S1V3W1

REFERENCE INFORMATION	
REFS	3.20000×10^{-01} Sq.Ft.
REFL	$2.31700 \times 10^{+00}$ FT.
REFB	$1.50000 \times 10^{+01}$ FT.
XNRP	$1.38370 \times 10^{+00}$ IN.
YNRP	$0.00000 \times 10^{+00}$ IN.
ZNRP	$2.40000 \times 10^{+02}$ IN.
SCALE	1.87500×10^{-02} SCALE

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

LATERAL FORCE COEFFICIENT, CY



SYMBOL MACH PARAMETRIC VALUES
 * 0.170 BETA 0.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 12.211

REFERENCE FILE SDY 37100150

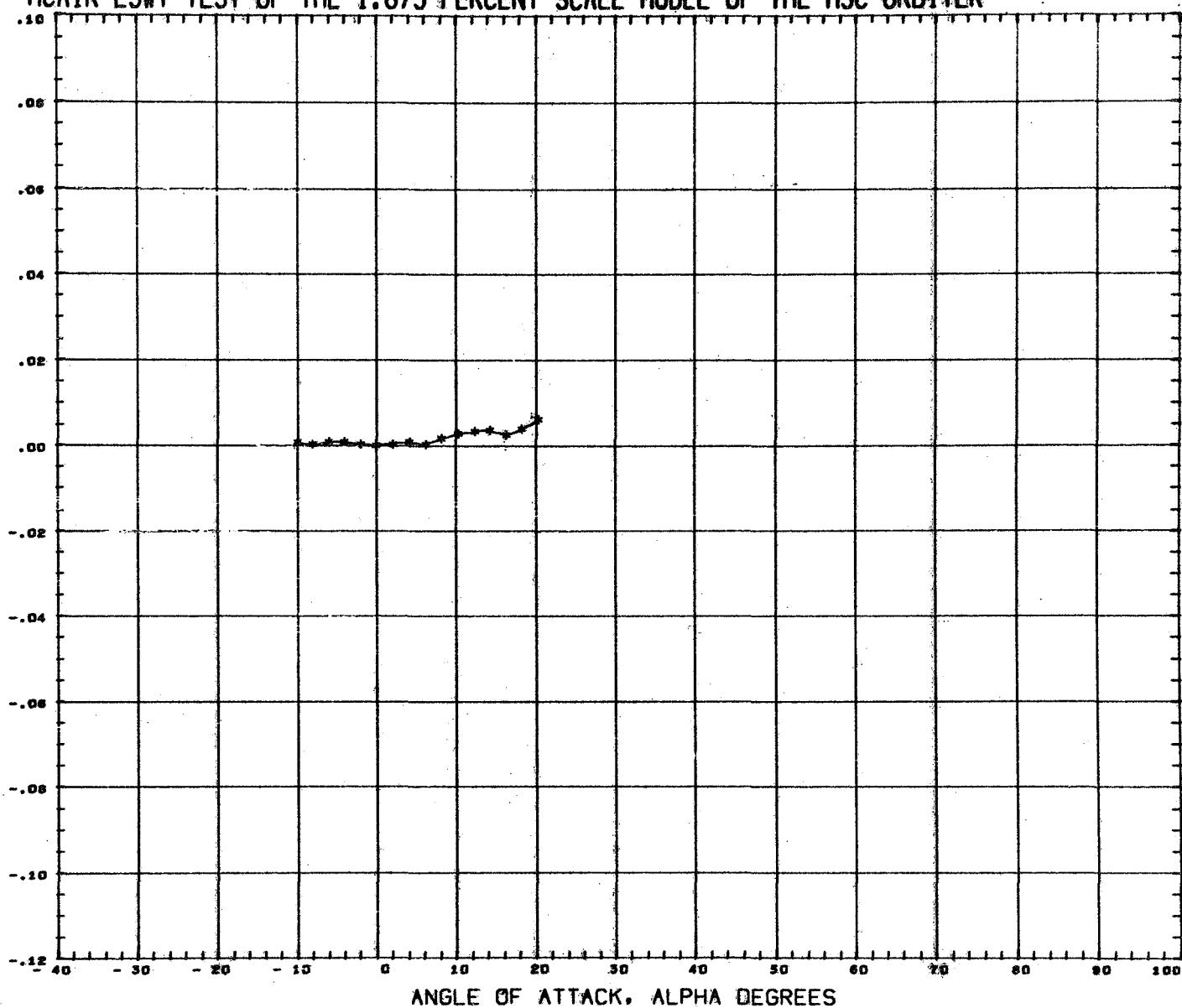
LSWT 223 1.875 PC MOD S5 ORB. B1S1V3W1

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REFERENCE INFORMATION
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 REFL 2.31700×10^{-01} FT.
 REFB $1.50000 \times 10^{+00}$ FT.
 XNRP 1.38370×10^{-01} IN.
 YMRF $0.00000 \times 10^{+00}$ IN.
 ZHRP 2.40000×10^{-02} IN.
 SCALE 1.87500×10^{-02} SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, CWN



SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 0.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 12.211

REFERENCE FILE SDY 37100150

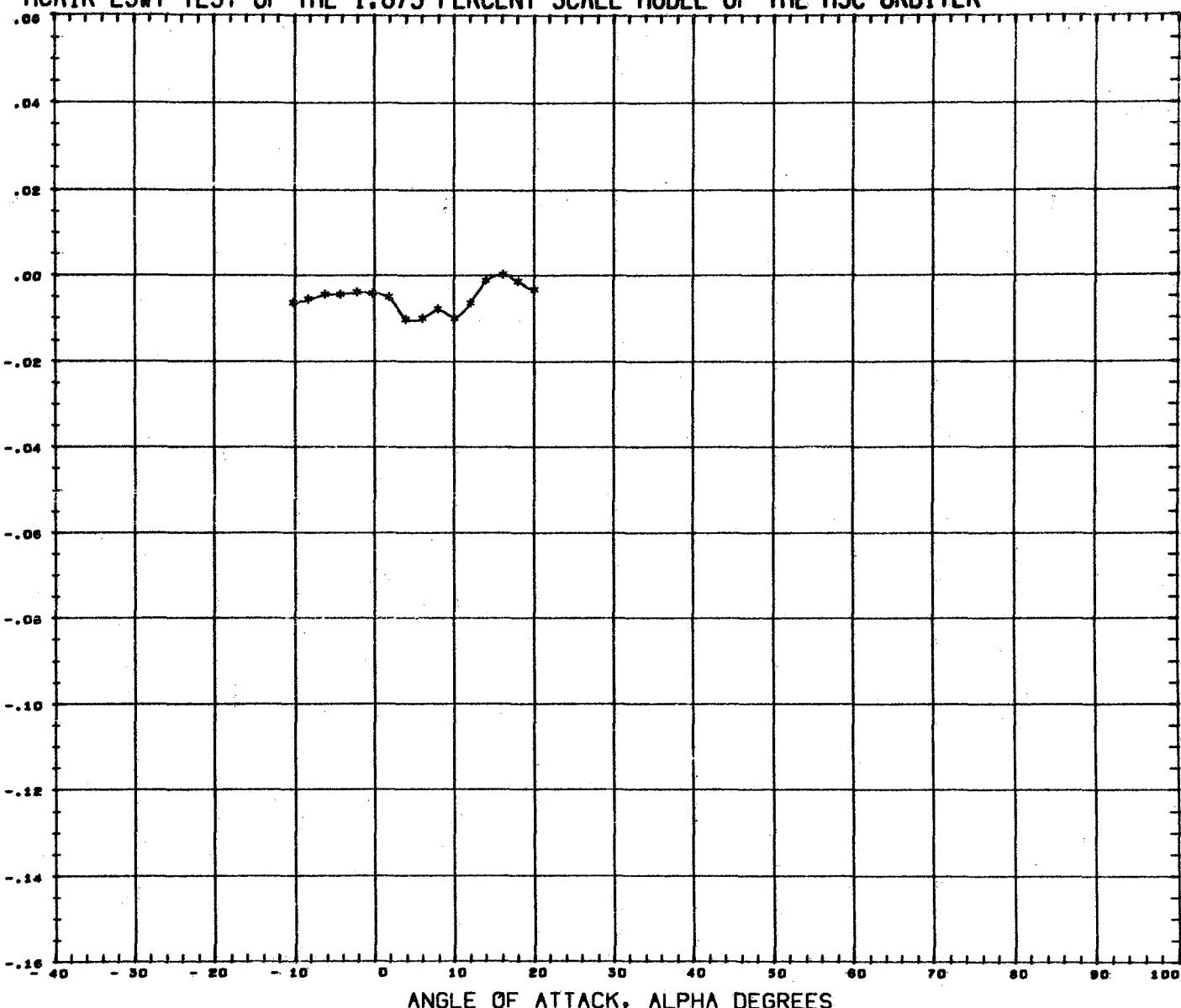
REFERENCE INFORMATION
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REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XHLP 1.38370X10⁺⁰⁰ IN.
YHLP 0.00000X10⁺⁰⁰ IN.
ZHLP 2.40000X10⁺⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1S1V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

ROLLING MOMENT COEFFICIENT, CSL



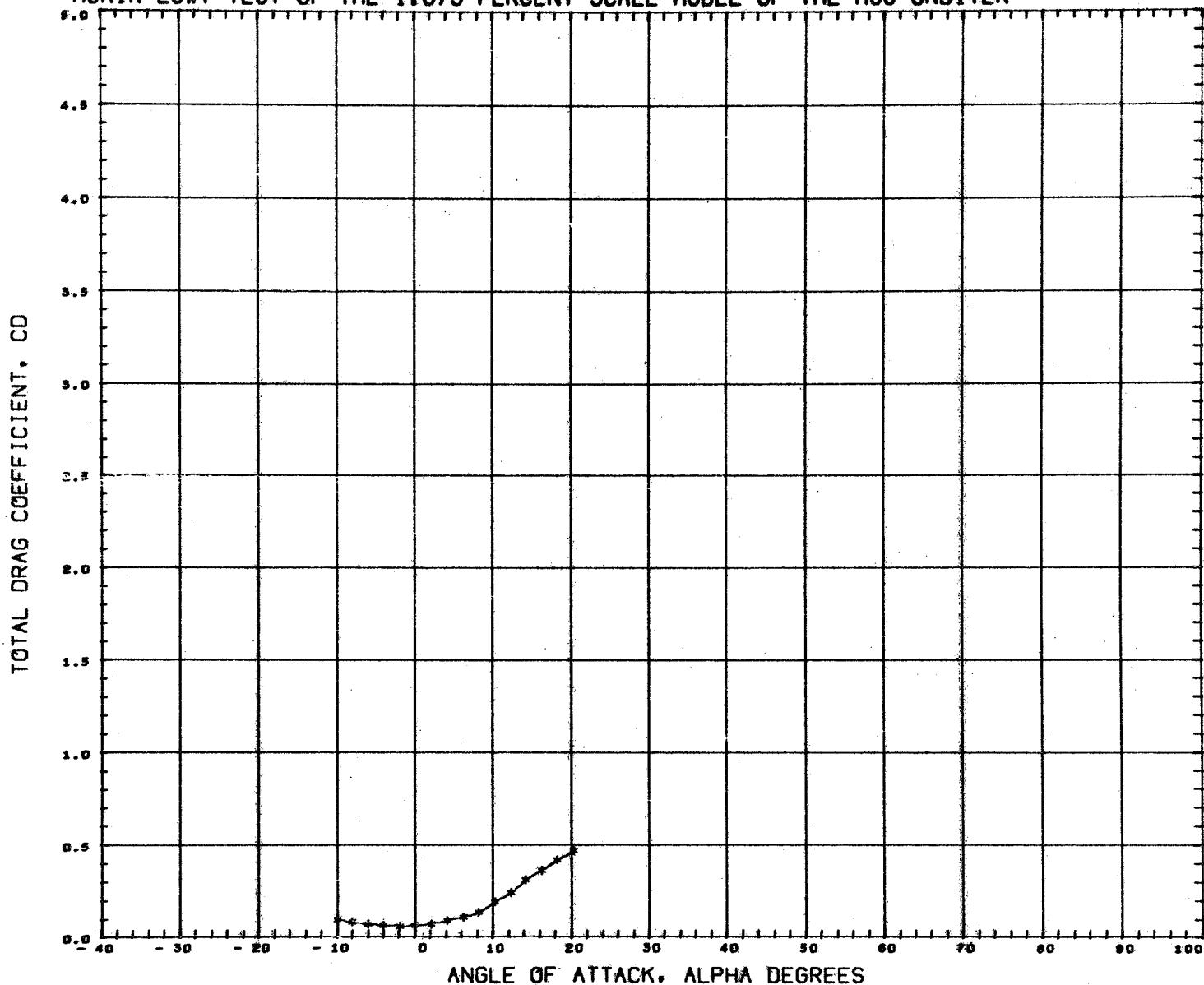
ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL MACH PARAMETRIC VALUES
 * 0.170 BETA 0.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
 REFS 3.20800X10-01 Sq.FT.
 REFL 2.31700X10+00 FT.
 REFB 1.50000X10+01 FT.
 XMRP 1.38370X10+01 IN.
 YMRP 0.00000X10+00 IN.
 ZMRP 2.40000X10-02 IN.
 SCALE 1.87500X10-02 SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

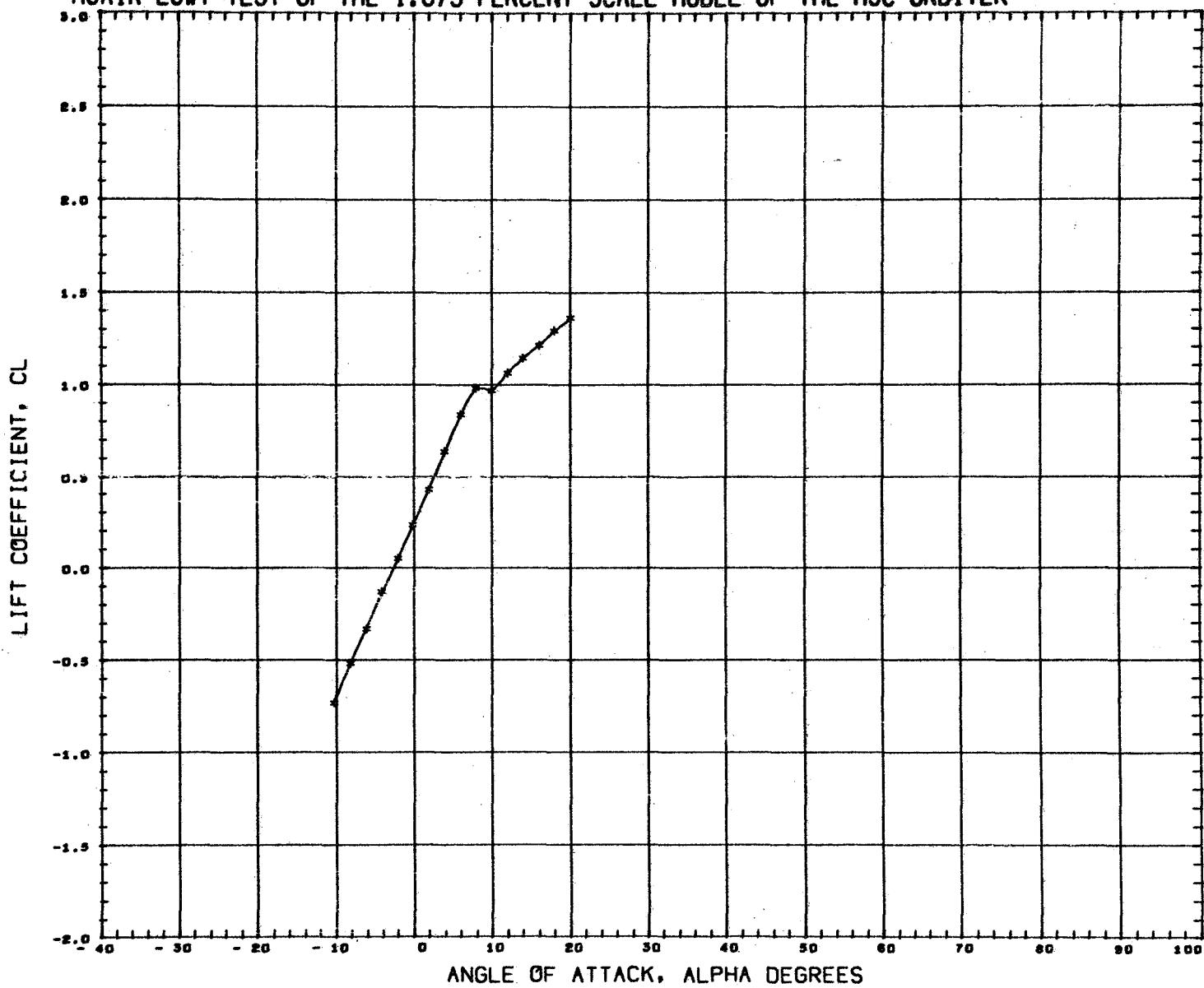


SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 0.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 12.231

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XHWP 1.38370X10⁺⁰¹ IN.
YHWP 0.00000X10⁺⁰⁰ IN.
ZHWP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



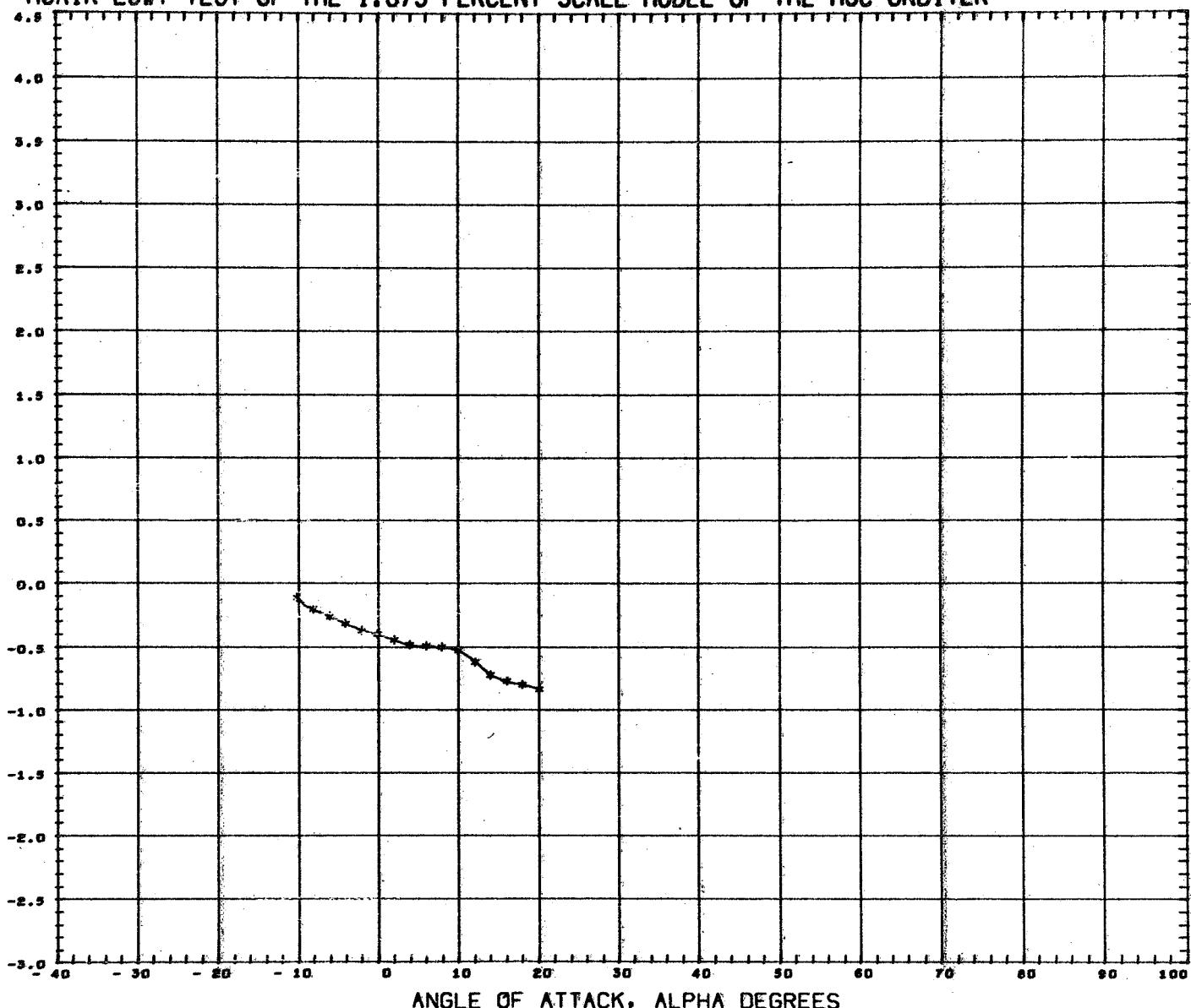
SYMBOL MACH PARAMETRIC VALUES
* 0.875 BETA 0.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20000X10-01 SQ.FT.
REFL 2.31700X10-01 FT.
REFB 1.50000X10+00 FT.
XHRP 1.38370X10+01 IN.
YNRP 0.00000X10+00 IN.
ZHRP 2.40000X10+00 IN.
SCALE 1.87500X10-02 SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CNM



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	0.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	12.211		

REFERENCE FILE SDY 37100150

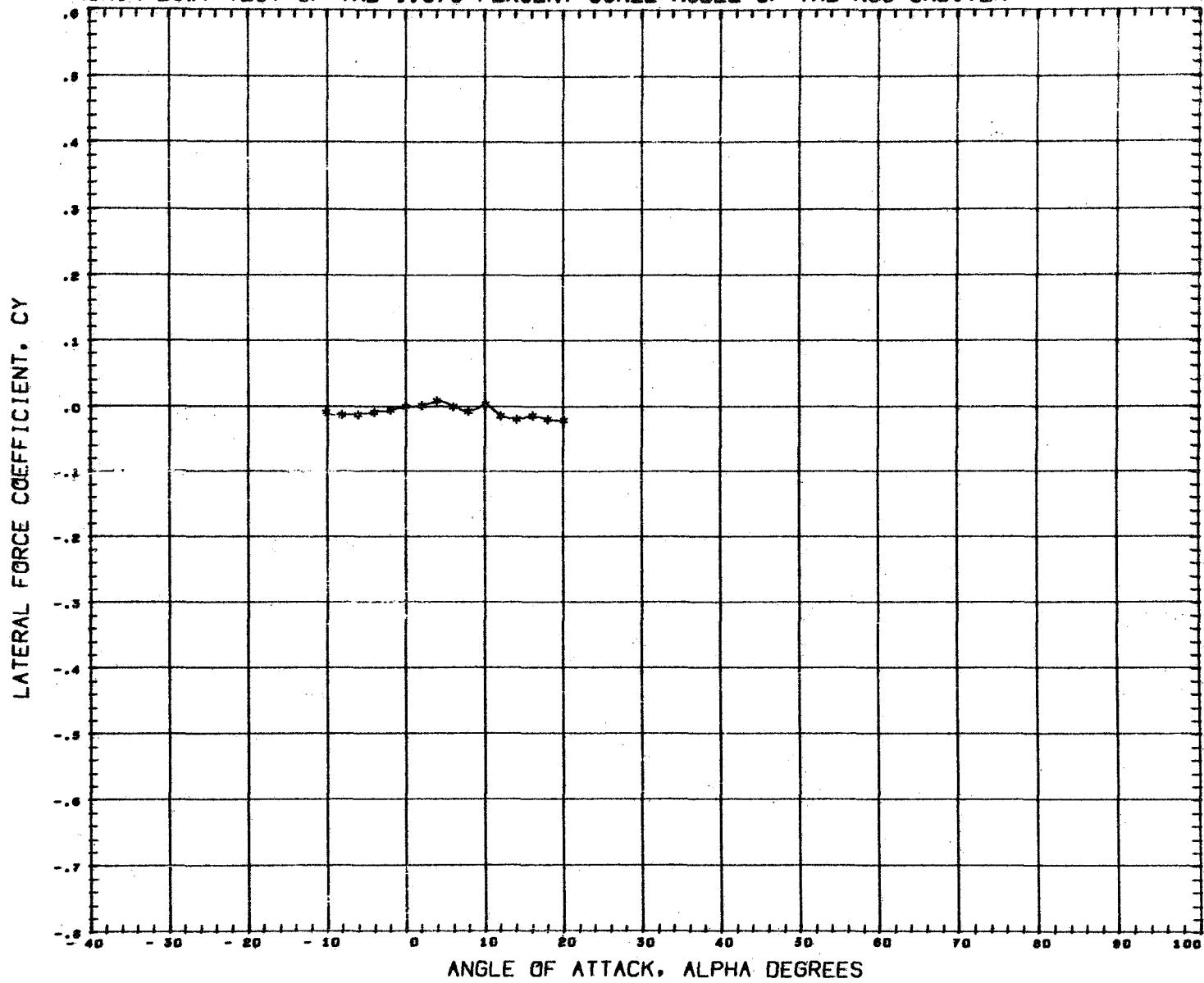
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REFB	3.50000X10 ⁺⁰⁰ FT.
XHRF	1.385.0X10 ⁺⁰¹ IN.
YNRF	0.00000X10 ⁺⁰⁰ IN.
ZNRF	2.40000X10 ⁺⁰⁰ IN.
SCALE	1.67500X10 ⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H1513S1V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL HACH PARAMETRIC VALUES

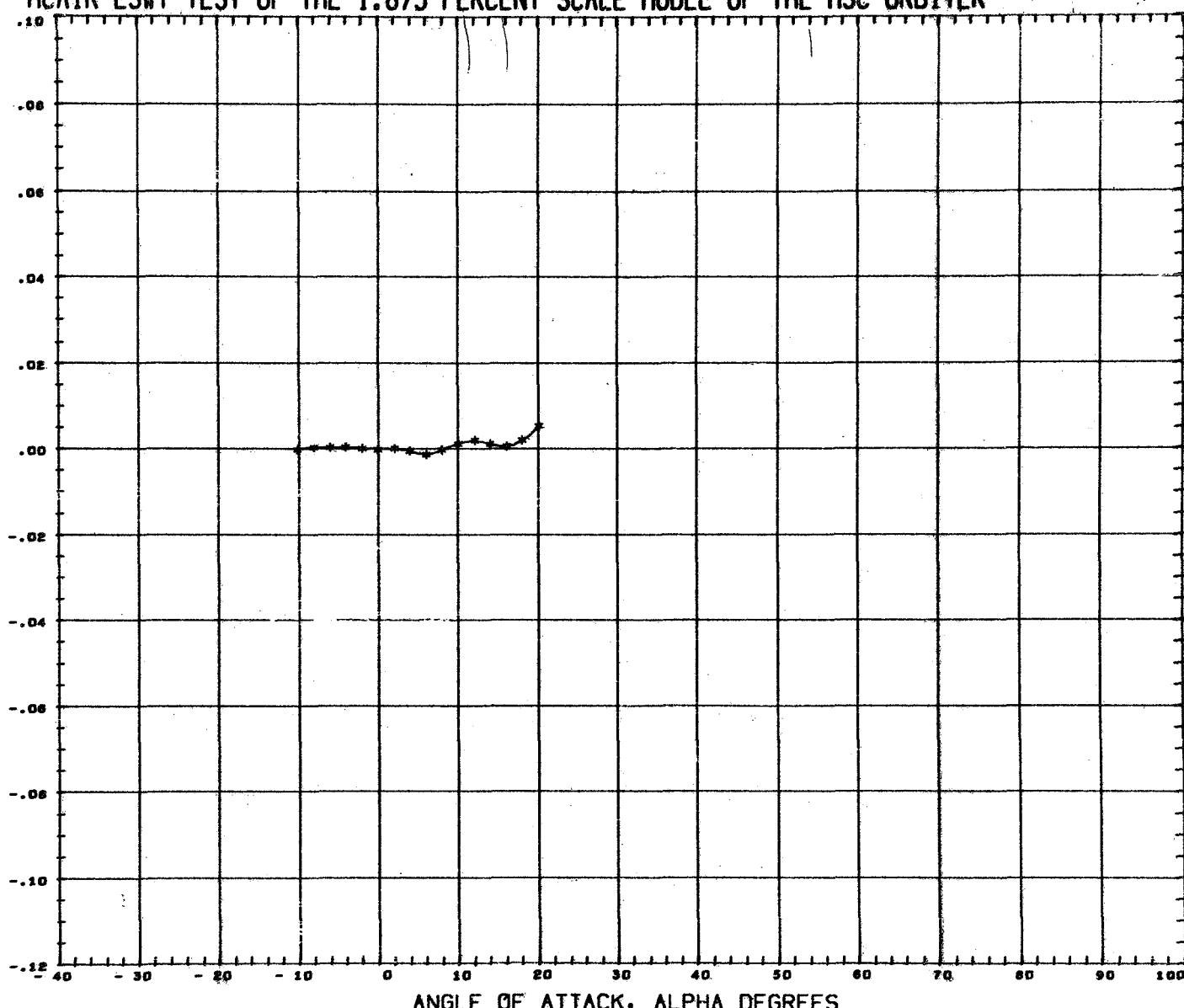
* 0.170 BETA 0.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XHRF 1.38370X10⁺⁰¹ IN.
YHRF 0.00000X10⁺⁰⁰ IN.
ZHRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, C_{WN}



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL MACH PARAMETRIC VALUES
 * 0.170 BETA 0.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 12.211

REFERENCE FILE SDY 37100150

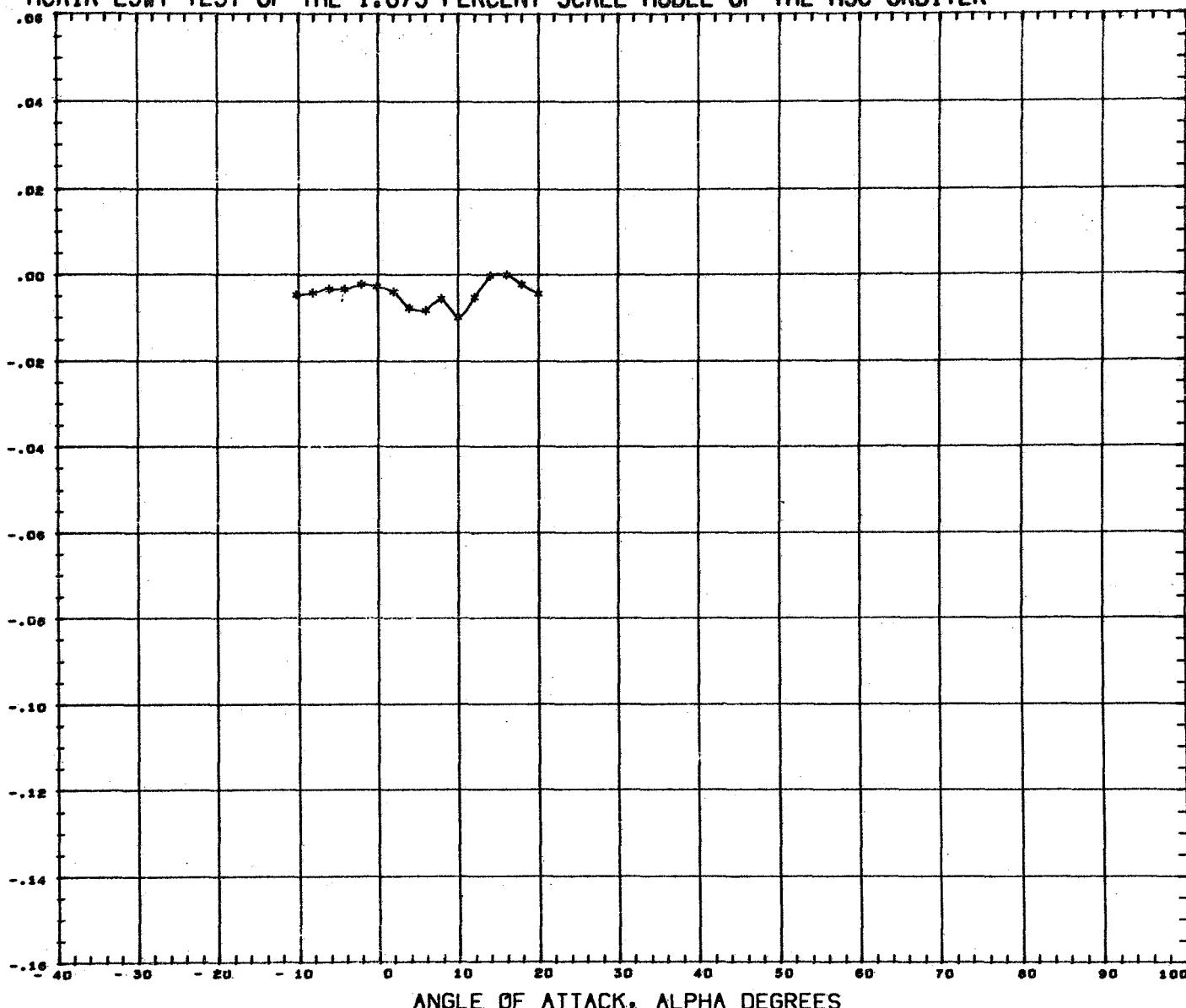
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 XHRF 1.38370X10⁺⁰⁰ IN.
 YMRF 0.00000X10⁻⁰⁰ IN.
 ZMRF 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H1513S1V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

ROLLING MOMENT COEFFICIENT, CSL



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	0.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	12.211		

REFERENCE FILE SDY 37100150

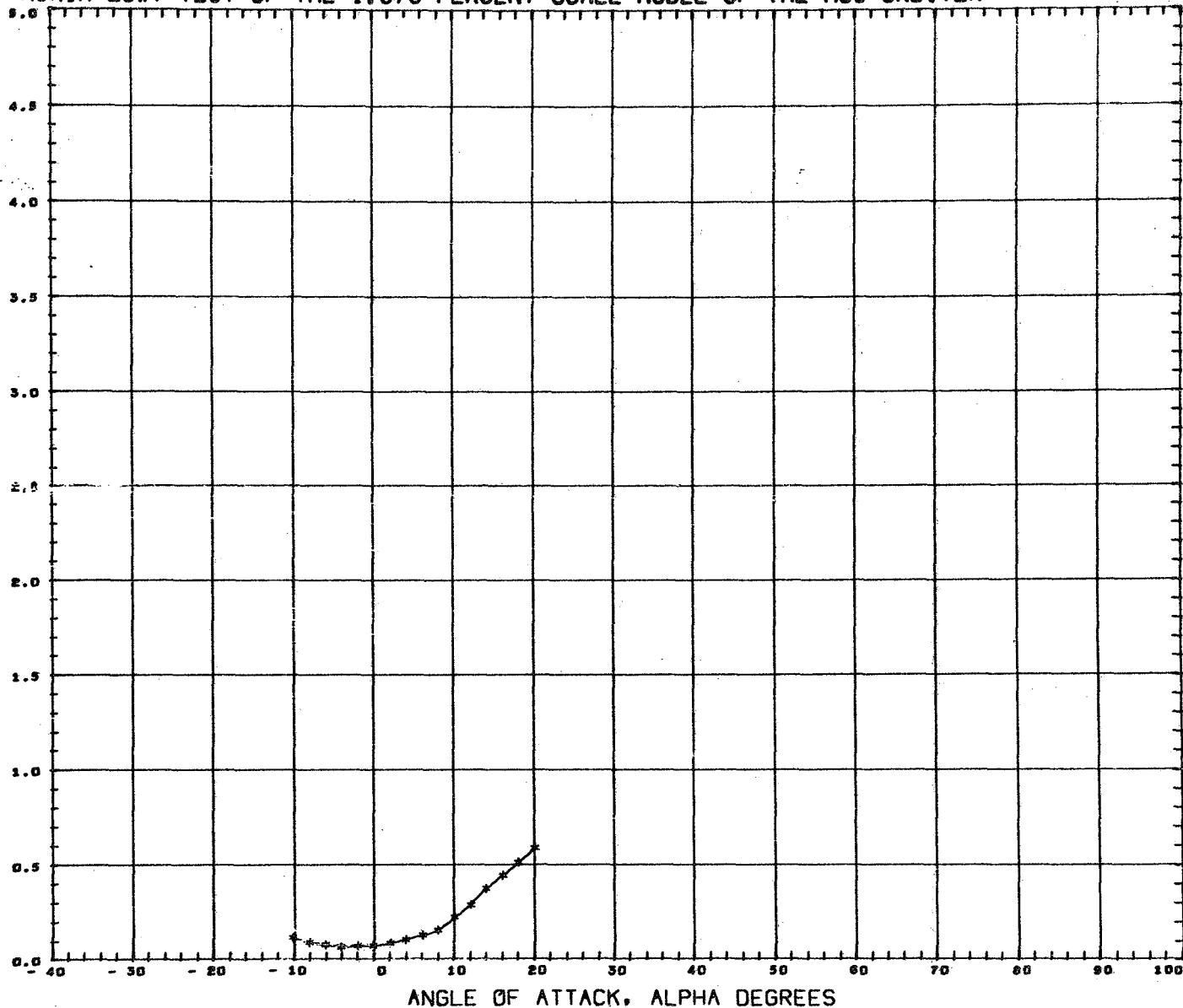
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REFL	2.31700X10 ⁻⁰¹ FT.
REFB	1.50000X10 ⁺⁰⁰ FT.
XMRP	1.38370X10 ⁻⁰¹ IN.
YMRP	0.00000X10 ⁺⁰⁰ IN.
ZMRP	2.40000X10 ⁻⁰⁰ IN.
SCALE	1.87500X10 ⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H1513S1V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

TOTAL DRAG COEFFICIENT, CD



SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 0.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 12.211

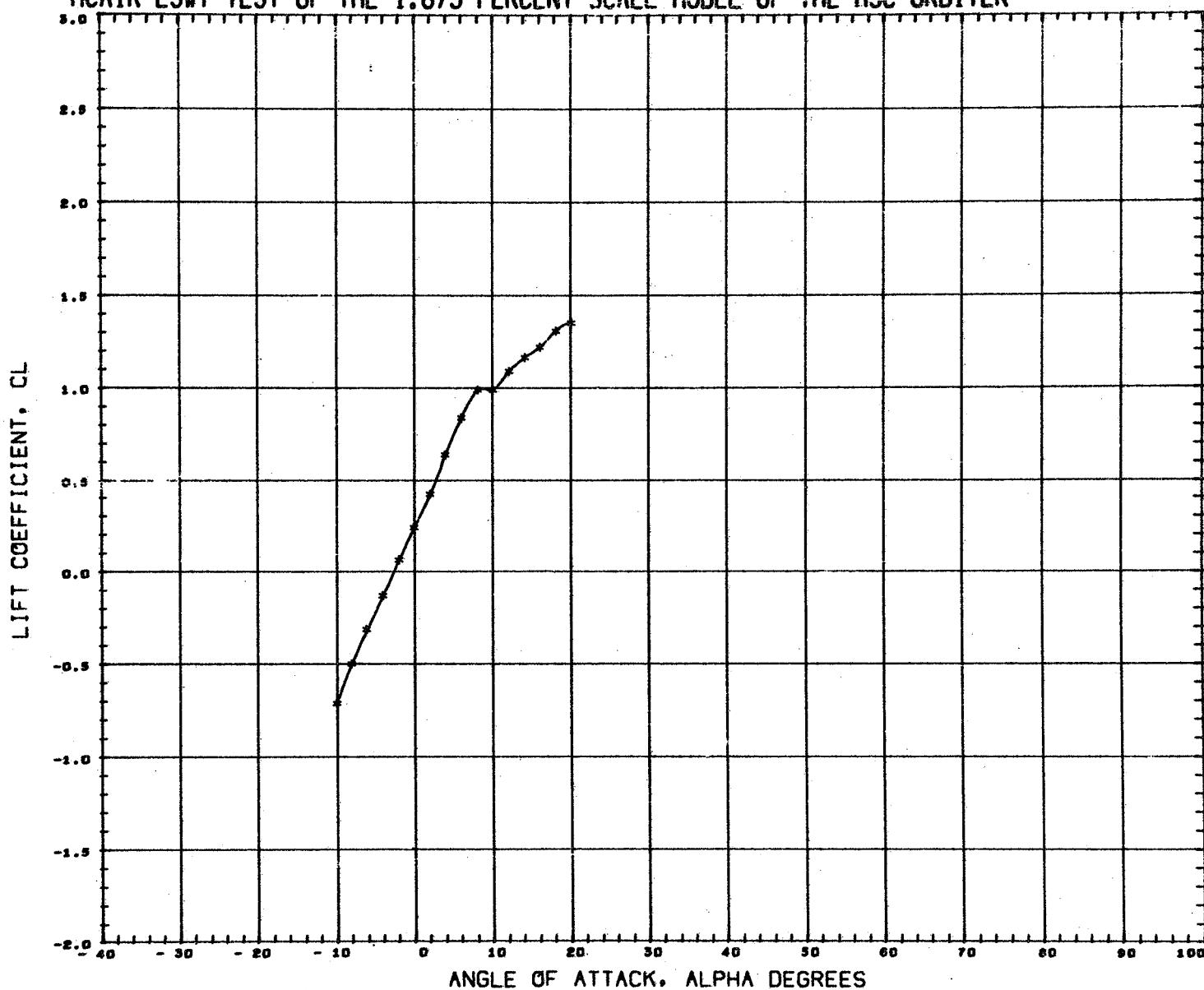
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REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ Sq.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XMRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H1513S1V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



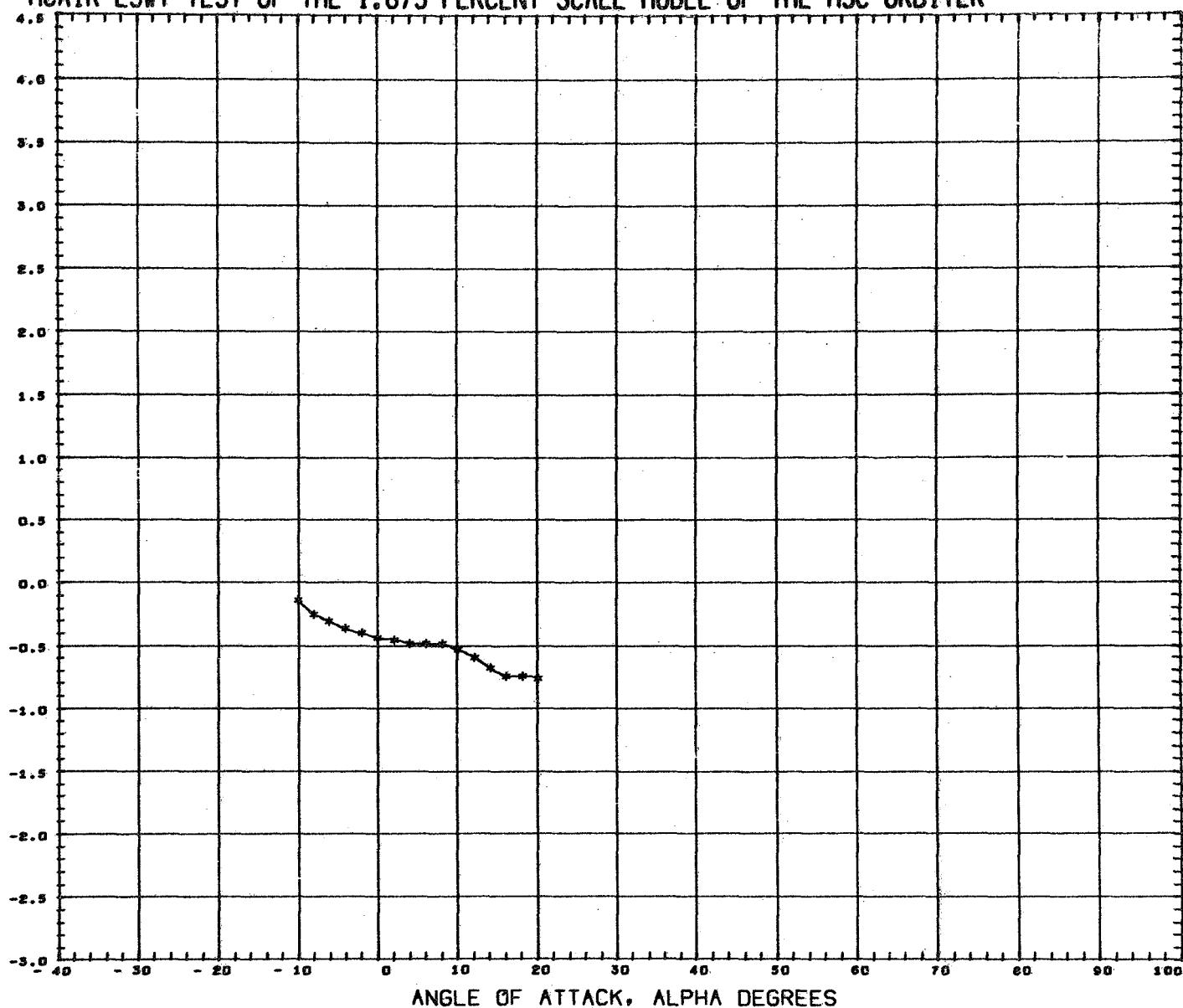
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 ELEVTR 0.000 PHI 0.000
 WINGL 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ IN.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XHRF 1.36370X10⁺⁰¹ IN.
YNRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT, CNM



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	5.000	HTAIL	0.000
ELEVTR		0.000	PHI	0.000	
WINGL		12.211			

REFERENCE FILE SDY 37100150

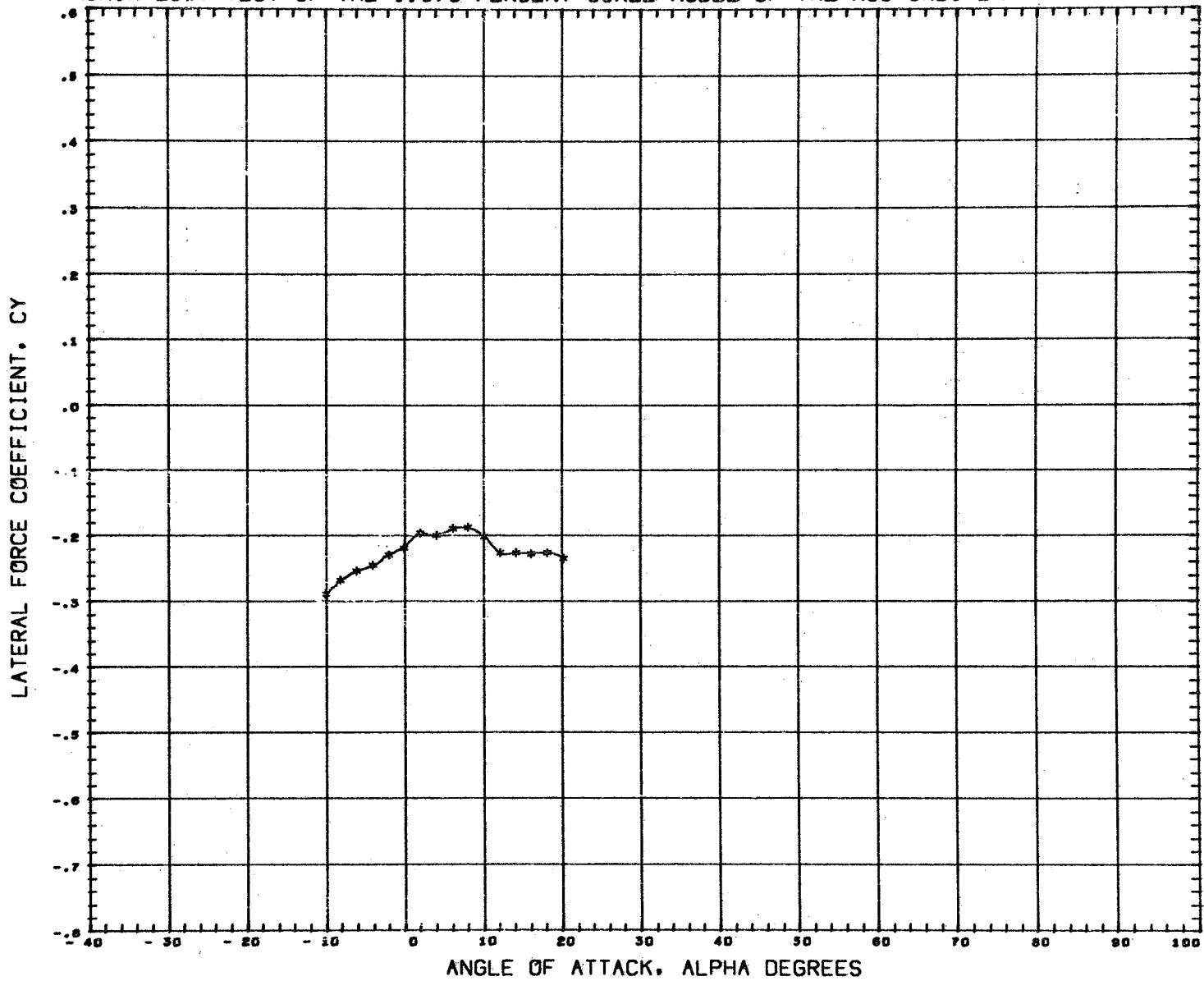
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REFB	1.50000X10 ⁺⁰¹ FT.
XHRP	1.38370X10 ⁺⁰⁰ IN.
YHRP	0.00000X10 ⁺⁰⁰ IN.
ZHRP	2.40000X10 ⁻⁰² IN.
SCALE	1.87500X10 ⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H1513S1V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



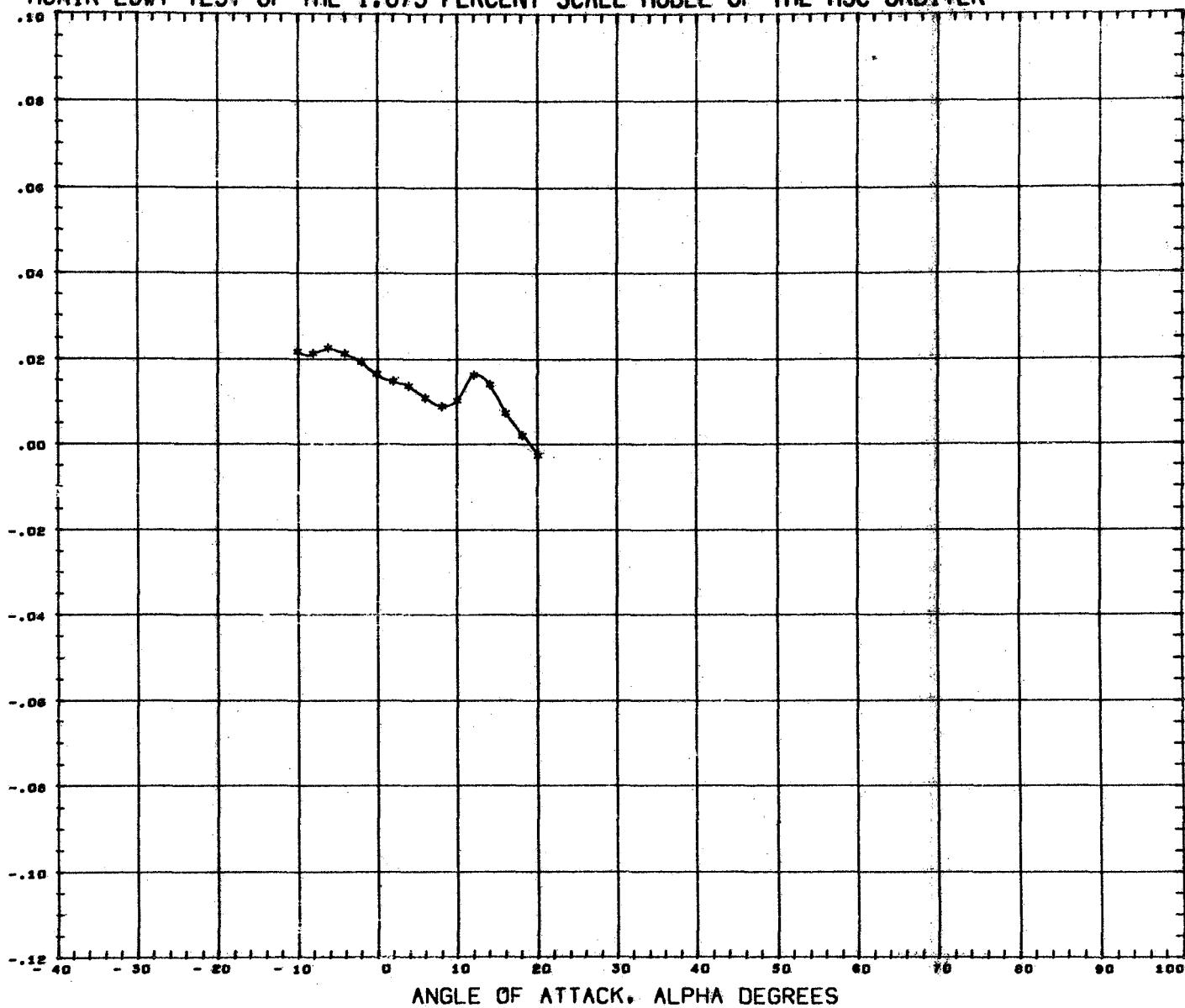
SYMBOL MACH PARAMETRIC VALUES
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 ELEVTR 0.000 PHI 0.000
 WINGL 12.211

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XMRP 1.38370X10⁺⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, CWN



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES		
*	0.170	BETA	5.000	NTAIL 0.000
		ELEVTR	0.000	PHI 0.000
		WINGL	12.2±1	

REFERENCE FILE SDY 37100150

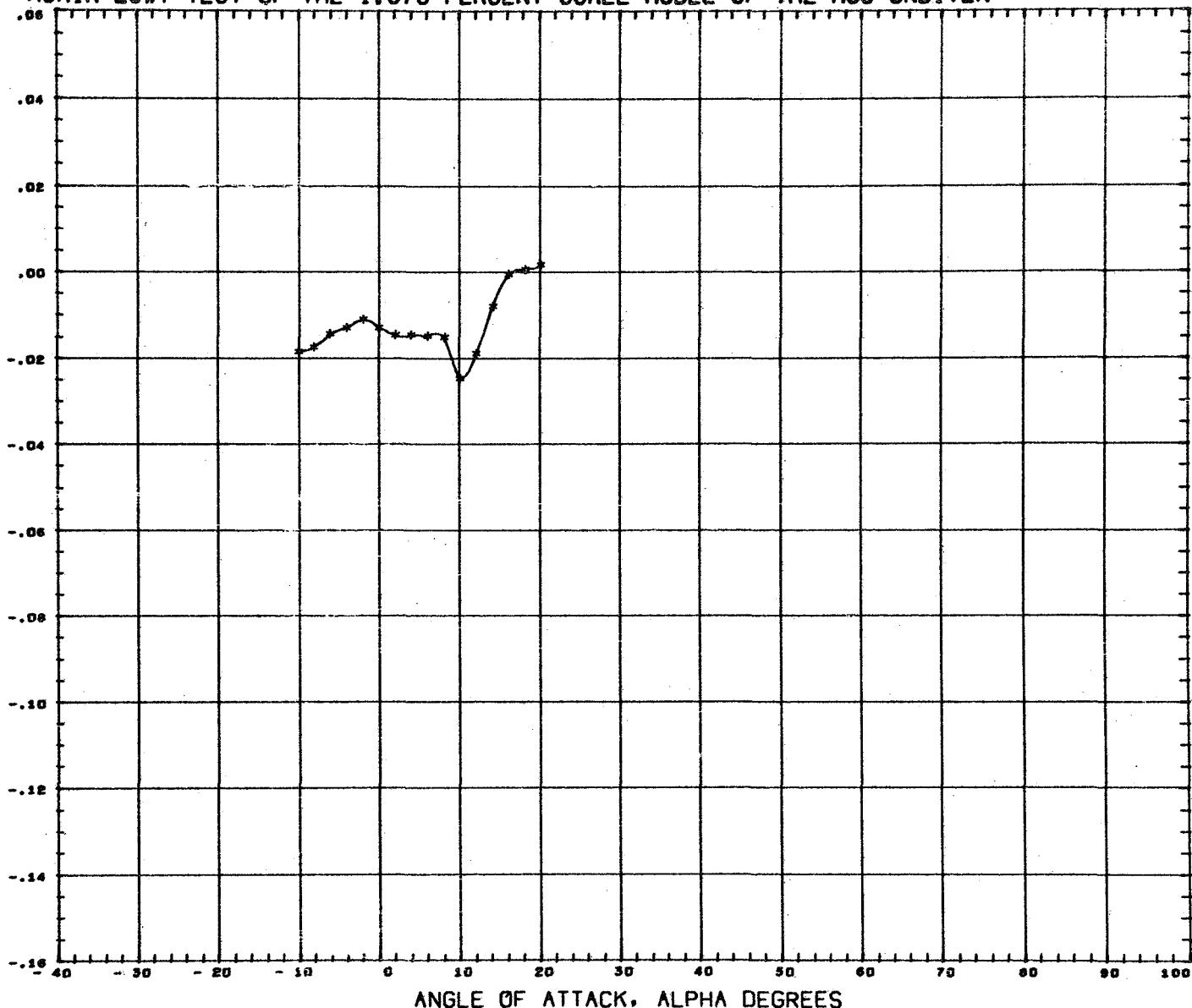
REFERENCE INFORMATION	
REFS	3.20800X10 ⁻⁰¹ Sq.FT.
REFL	2.31700X10 ⁻⁰¹ FT.
REFB	1.50000X10 ⁺⁰⁰ FT.
XMRP	1.38370X10 ⁺⁰¹ IN.
YMRP	0.00000X10 ⁺⁰⁰ IN.
ZMRP	2.40000X10 ⁻⁰² IN.
SCALE	1.87500X10 ⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H1513S1V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

ROLLING MOMENT COEFFICIENT, CSL



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL MACH PARAMETRIC VALUES
 * 0.170 BETA 5.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 12.211

REFERENCE FILE SDY 37100150

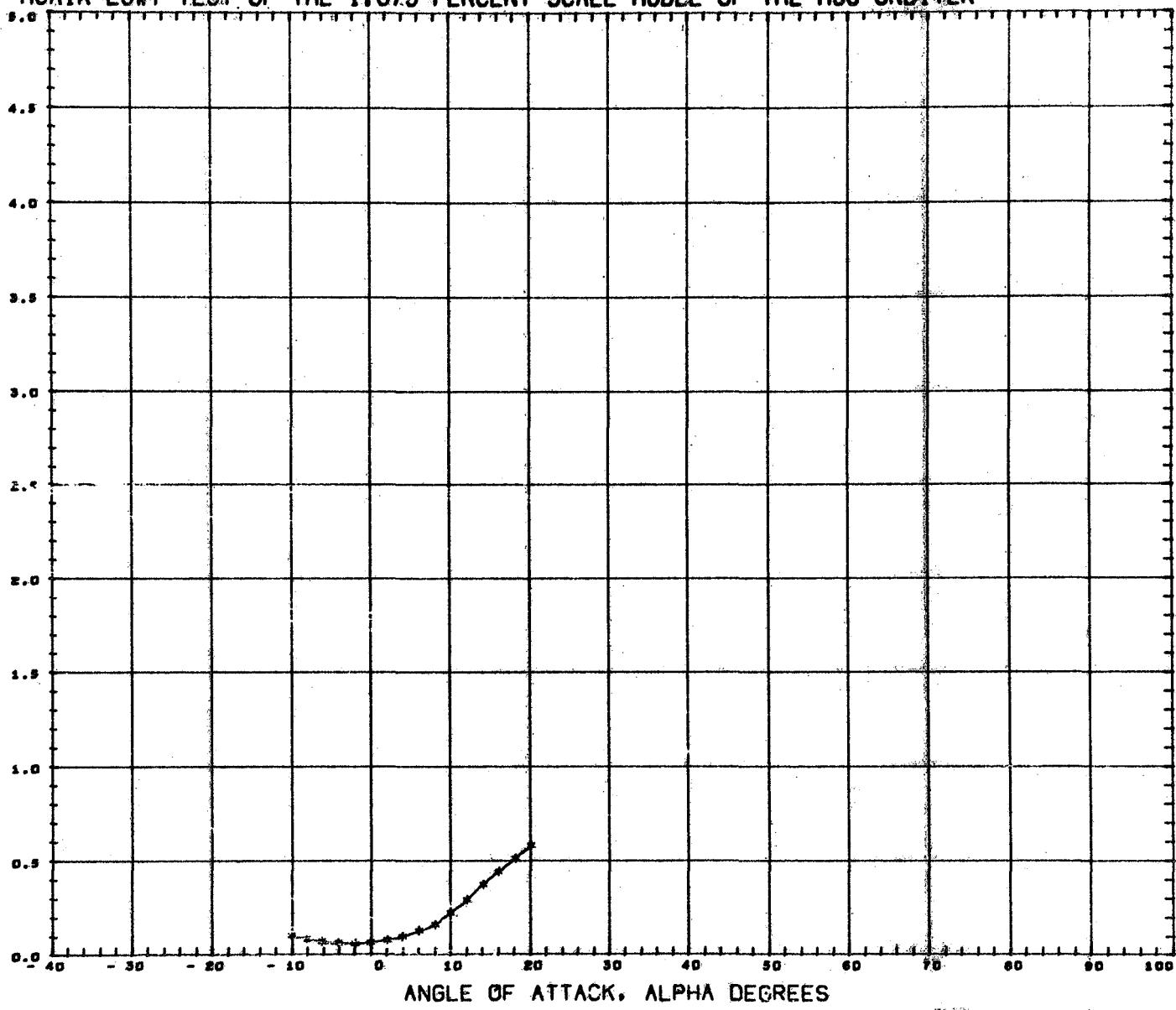
REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SG.FT.
 REFL 2.31700X10⁻⁰¹ FT.
 REFB 1.50000X10⁺⁰⁰ FT.
 XMRP 1.38370X10⁻⁰¹ IN.
 YMRP 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H1513S1V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

TOTAL DRAG COEFFICIENT, CD



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 5.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 12.211

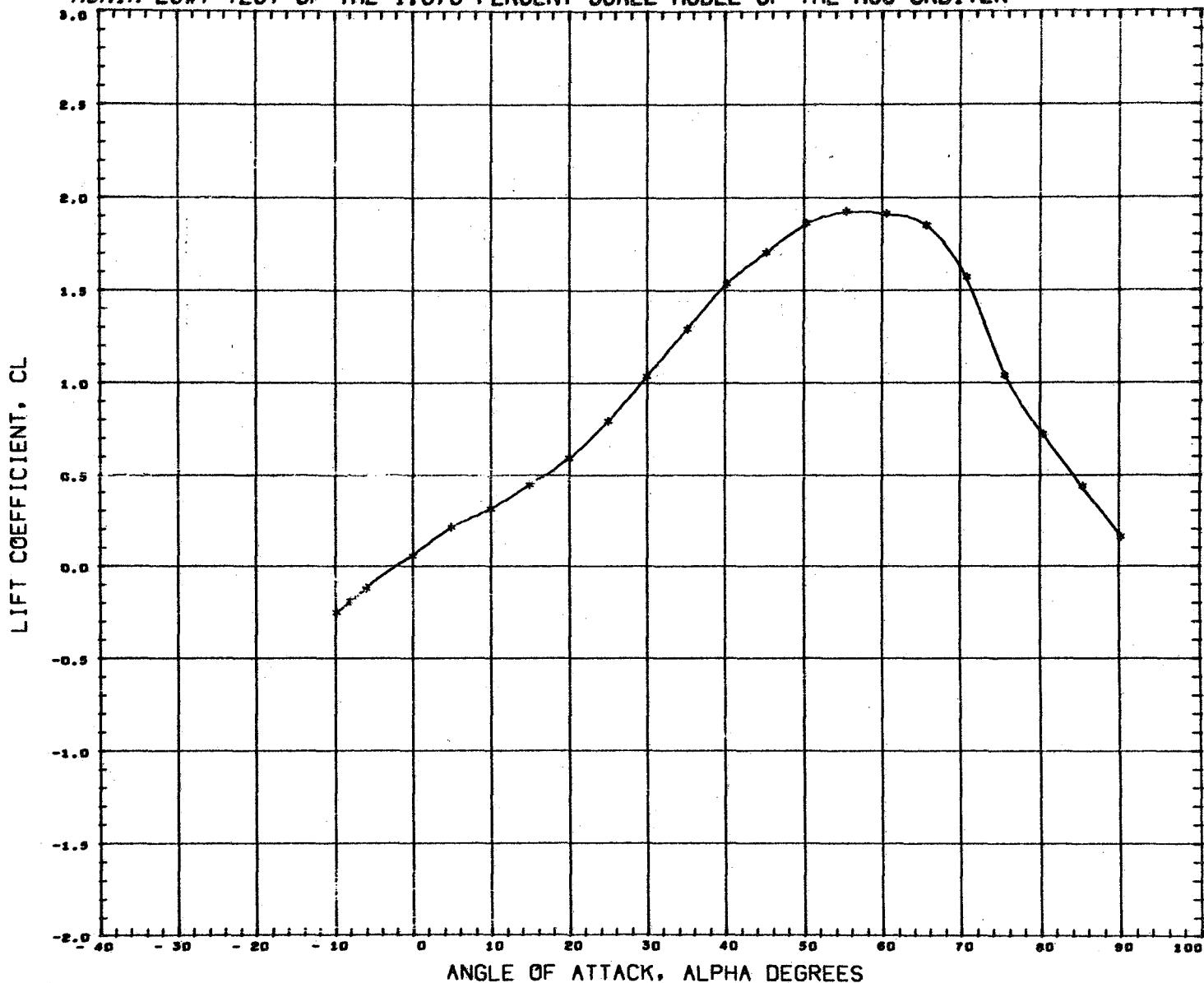
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REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ Sq.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFD 1.90000X10⁺⁰⁰ FT.
NRP 1.36370X10⁻⁰¹ IN.
TMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H1513S1V3W1

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 0.000 HTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 0.000

REFERENCE FILE SDY 37100150

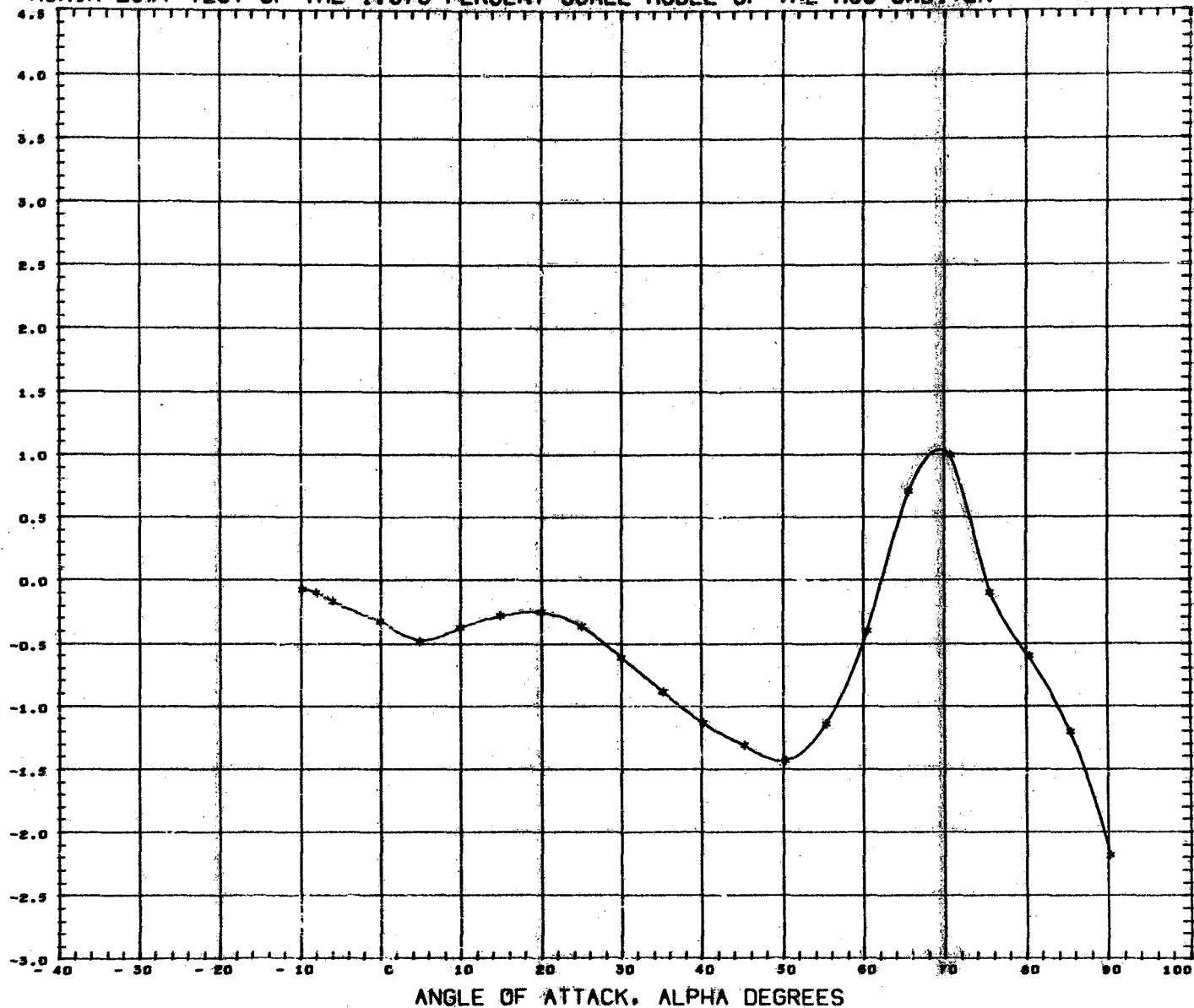
LSWT 223 1.875 PC MOD S5 ORB. B1H6

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰¹ FT.
XHRP 1.38370X10⁺⁰¹ IN.
YMRP 0.00000X10⁺⁰⁰ IN.
ZMRP 2.40000X10⁺⁰⁰ IN.
SCALE 1.87500X10⁻⁰² SCALE

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

PITCHING MOMENT COEFFICIENT. CNM



ANGLE OF ATTACK. ALPHA DEGREES

SYMBOL MACH PARAMETRIC VALUES
* 0.170 BETA 0.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 0.000

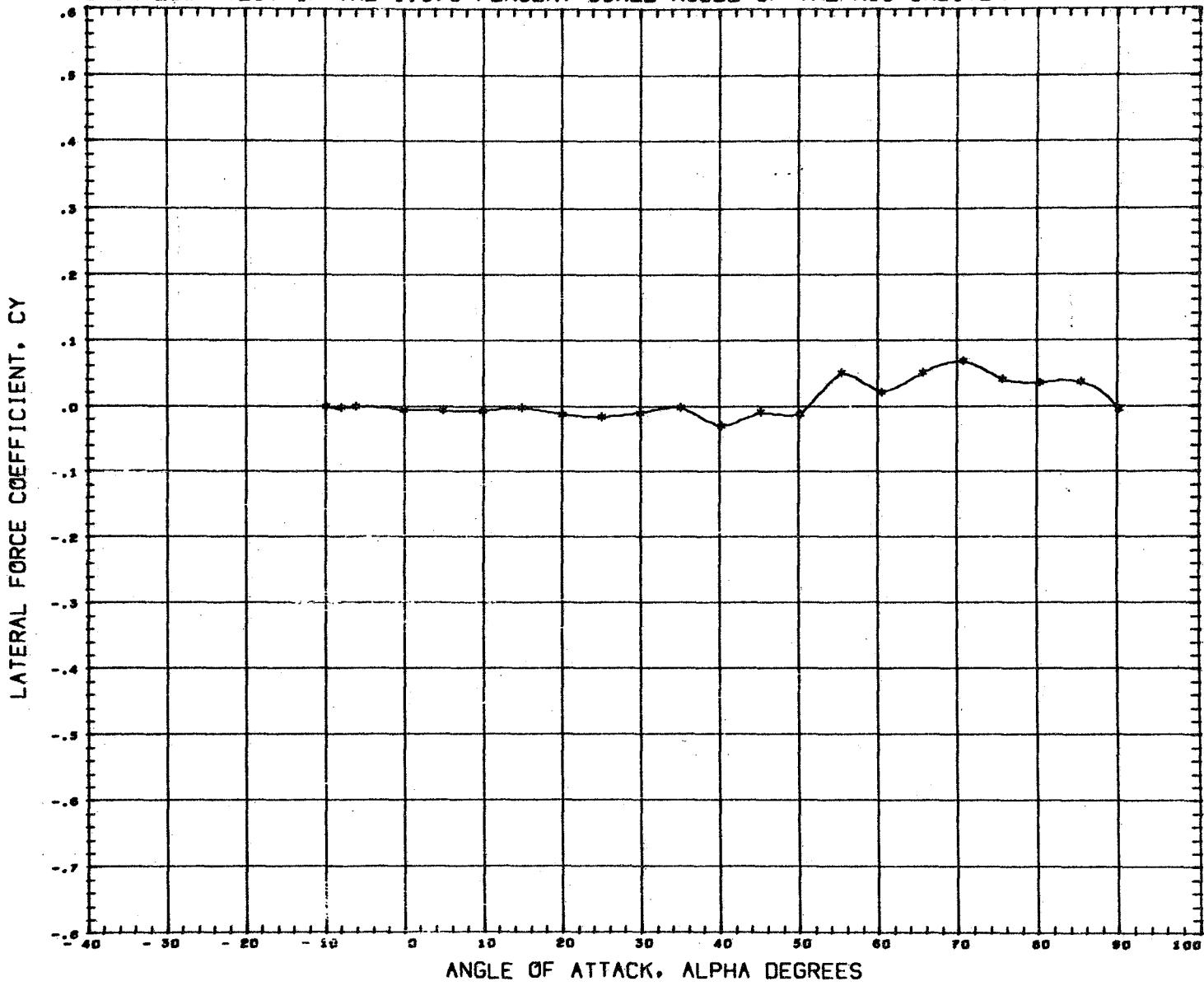
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LSWT 223 1.875 PC MOD S5 ORB. B1H6

REFERENCE INFORMATION
REFS 3.20800X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
REFP 1.38370X10⁺⁰¹ IN.
WREFP 0.00000X10⁺⁰⁰ IN.
WWRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES		
*	0.170	BETA	0.000	HTAIL 0.000
		ELEVTR	0.000	PHI 0.000
		WINGL	0.000	

REFERENCE FILE SDY 37100150

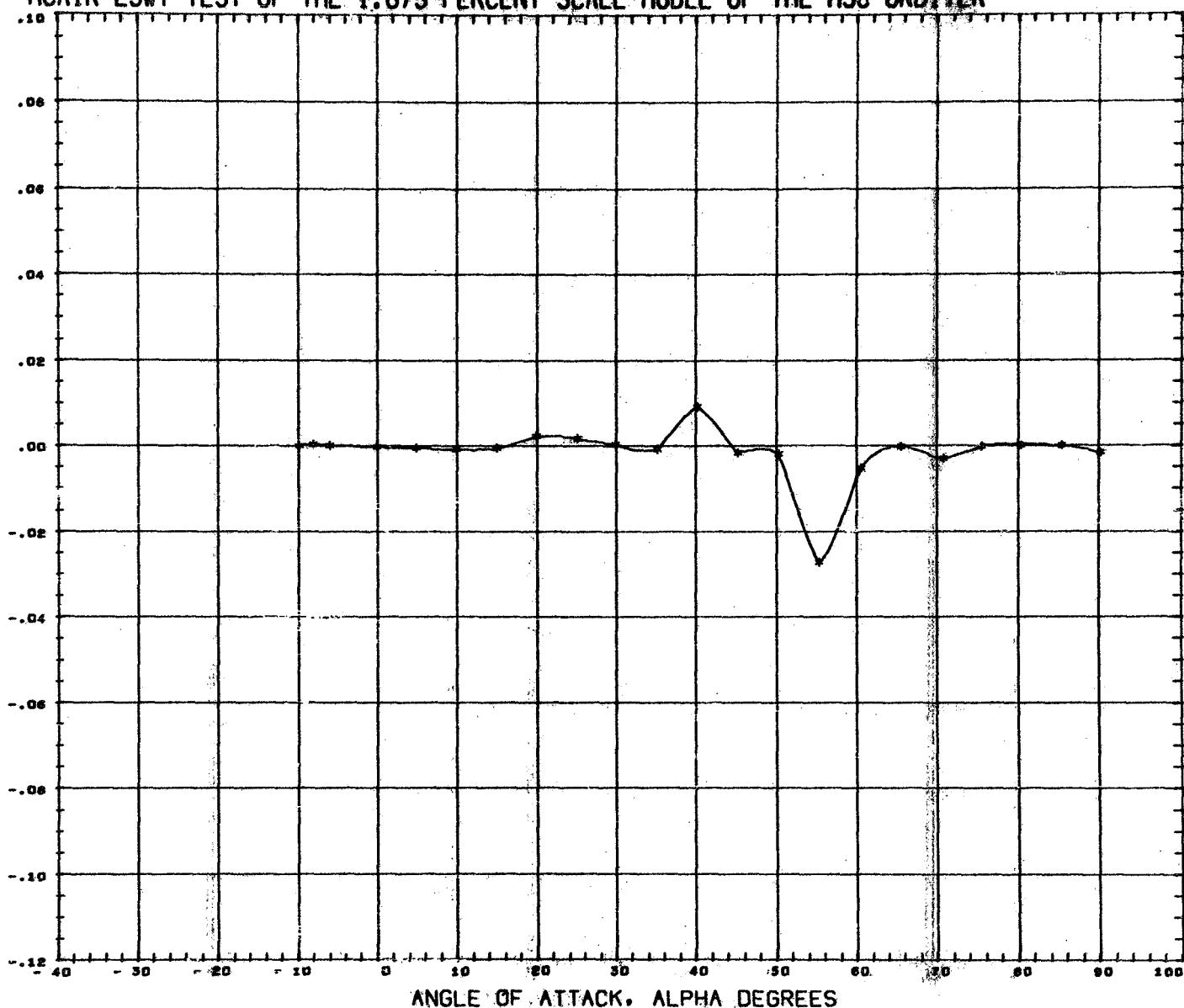
LSWT 223 1.875 PC MOD S5 ORB. B1H6

REFERENCE INFORMATION		
REFS	3.20800×10^{-01}	SQ.FT.
REFL	2.31700×10^{-01}	FT.
REFB	$1.50000 \times 10^{+00}$	FT.
XMRP	1.38370×10^{-01}	IN.
YNRP	$0.00000 \times 10^{+00}$	IN.
ZMRP	2.40000×10^{-02}	IN.
SCALE	1.87500×10^{-02}	SCALE

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, CWN



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES			
*	0.170	BETA	0.000	WTAIL	0.000
		ELEVTR	0.000	#HI	0.000
		WINGL	0.000		

REFERENCE FILE SDY 37100150

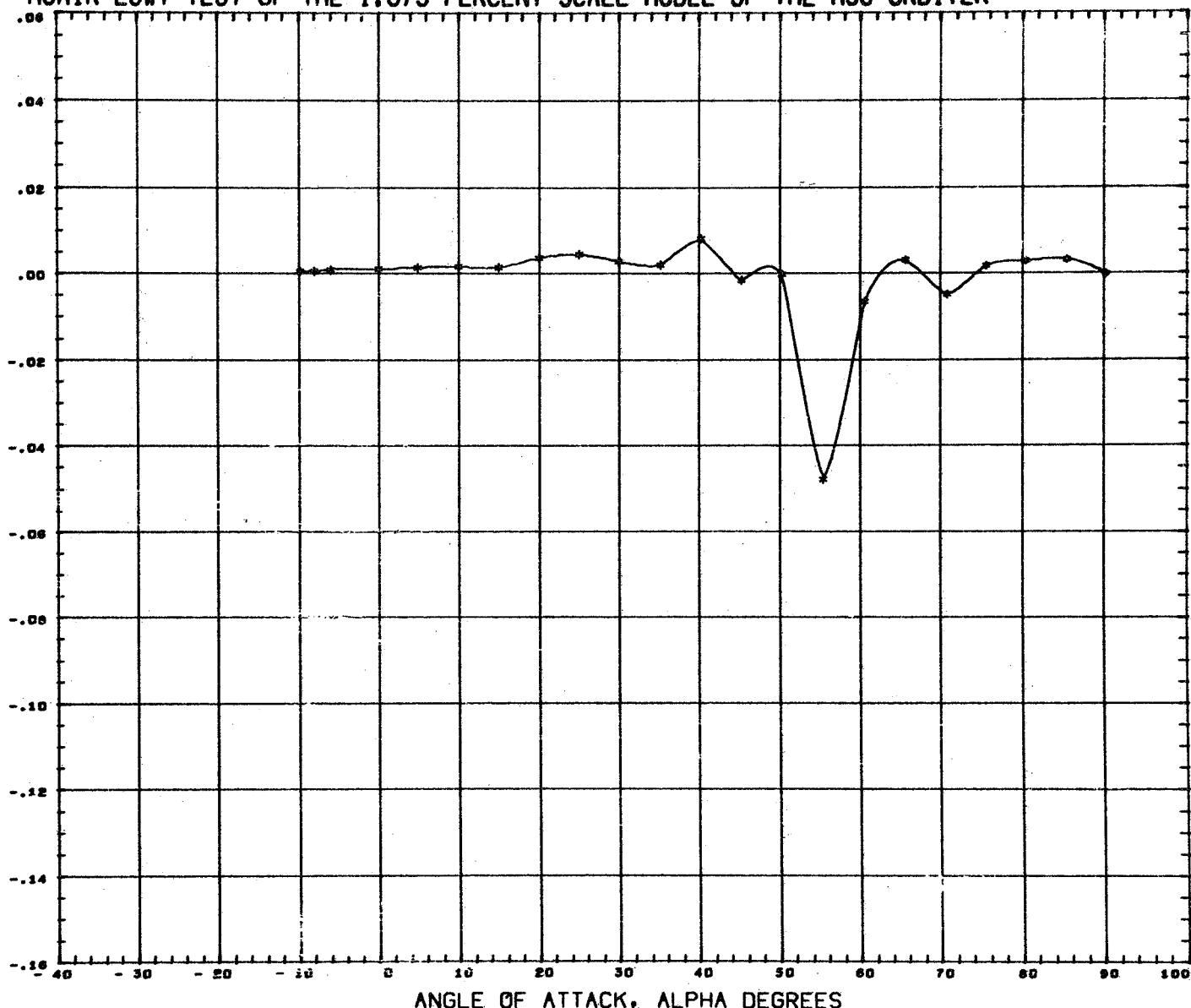
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WEGL	2.31700X10 ⁻⁰¹	FT.
RELB	1.50000X10 ⁺⁰⁰	FT.
XNRP	1.38370X10 ⁺⁰¹	IN.
YNRP	0.00000X10 ⁺⁰⁰	IN.
ZNRP	2.40000X10 ⁻⁰²	IN.
SCALE	1.87500X10 ⁻⁰²	SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

ROLLING MOMENT COEFFICIENT. CSL



ANGLE OF ATTACK. ALPHA DEGREES

SYMBOL	NACH	PARAMETRIC VALUES			
*	0.170	BETA	0.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	0.000		

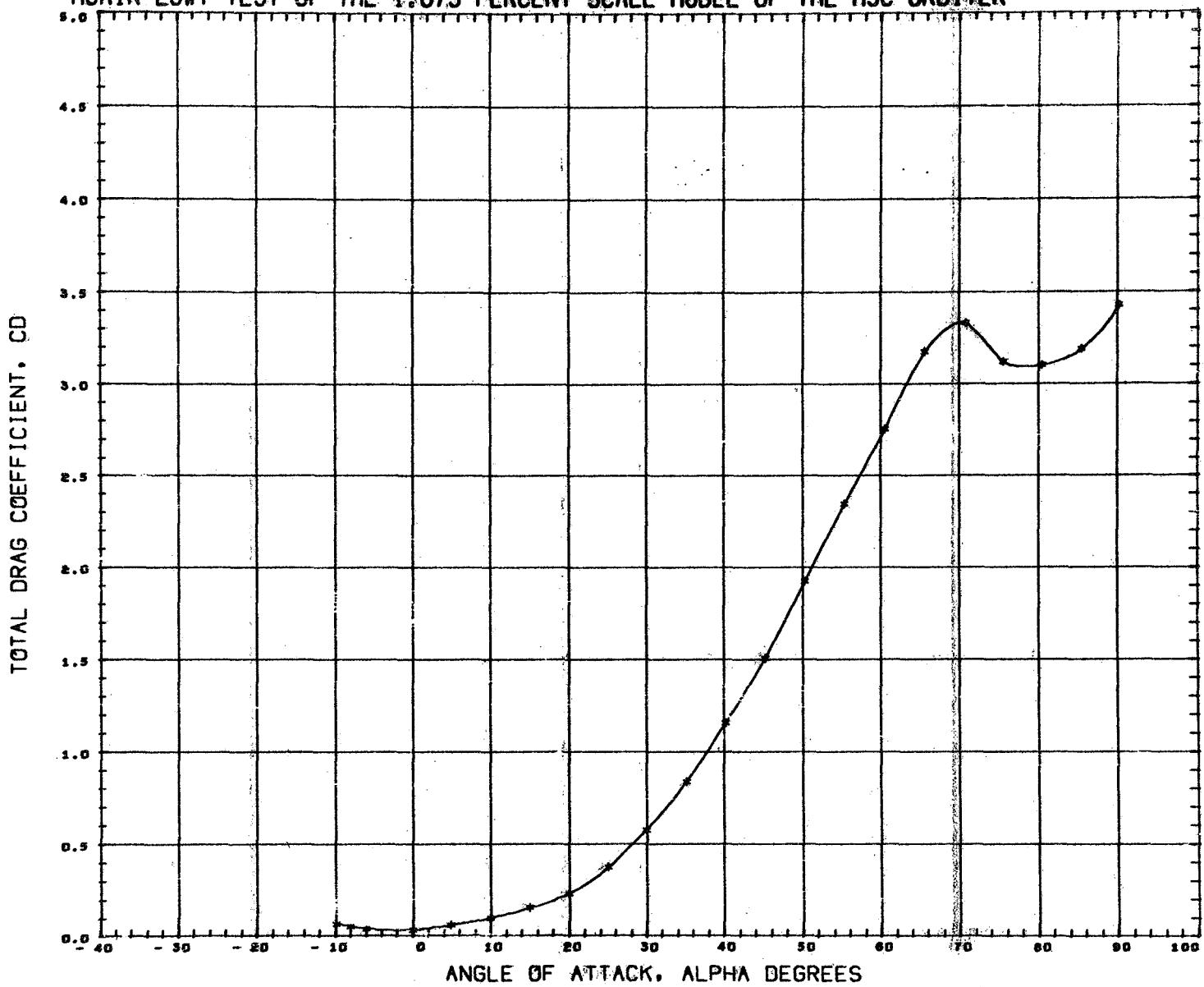
REFERENCE FILE SDY 37100150

REFERENCE INFORMATION		
REFS	3.20800X10 ⁻⁰¹	SQ.FT.
REFL	2.31700X10 ⁻⁰¹	FT.
REFB	1.50000X10 ⁺⁰⁰	FT.
XMRP	1.38370X10 ⁻⁰¹	IN.
YMRP	0.00000X10 ⁺⁰⁰	IN.
ZMRP	2.40000X10 ⁻⁰²	IN.
SCALE	1.87500X10 ⁻⁰²	SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL HACH PARAMETRIC VALUES
* 0.170 BETA 0.000 MTAIL 0.000
ELEVTR 0.000 PHI 0.000
WINGL 0.000

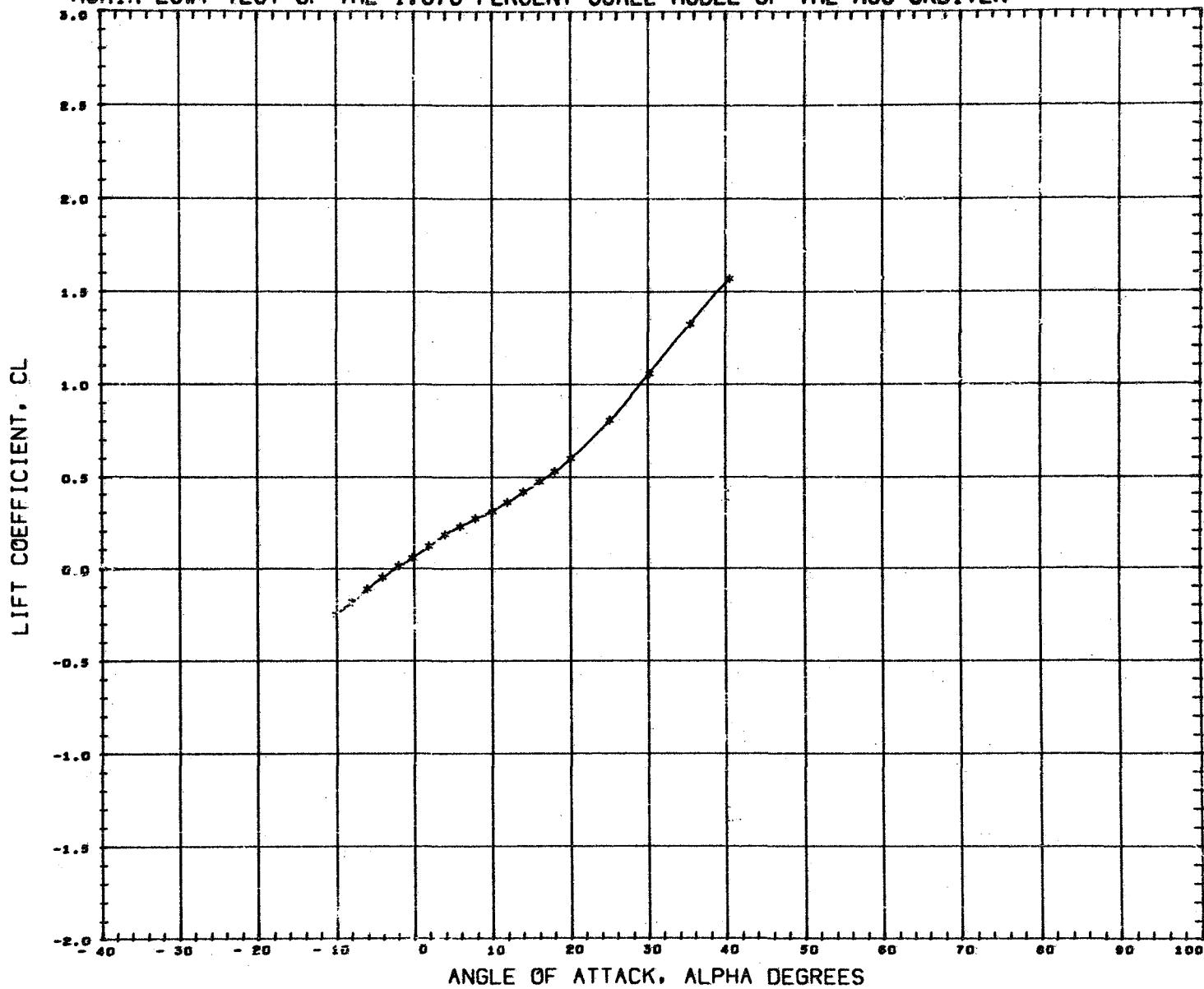
REFERENCE FILE SDY 37100150

LSWT 223 1.875 PC MOD S5 ORB. B1H6

REFERENCE INFORMATION
REFS 3.20000X10⁻⁰¹ SQ.FT.
REFL 2.31700X10⁺⁰⁰ FT.
REFB 1.50000X10⁺⁰¹ FT.
XMRP 1.38370X10⁺⁰⁰ IN.
YMRP 0.00000X10⁻⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

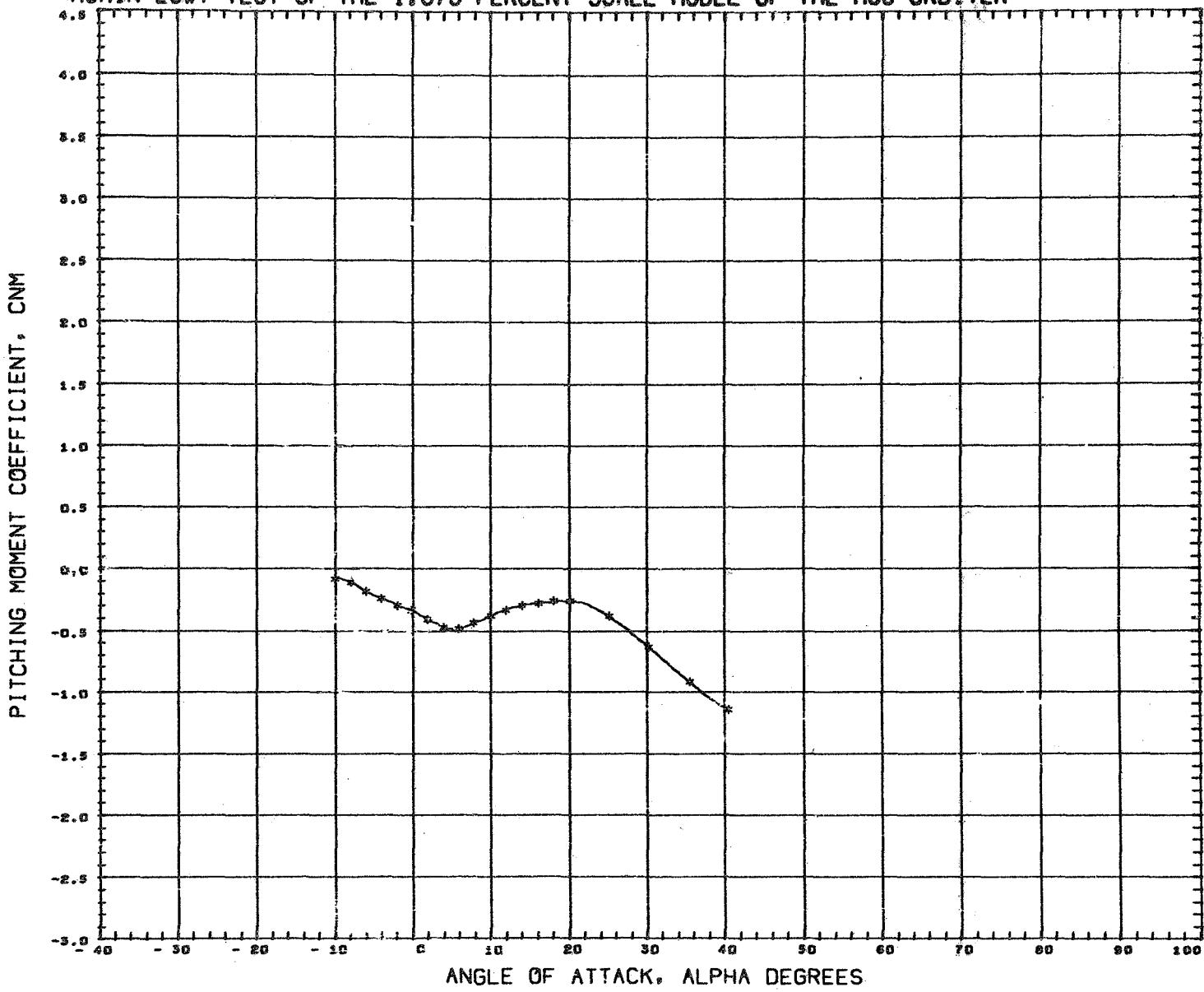


SYMBOL MACH PARAMETRIC VALUES.
 * 0.290 BETA 0.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 0.000

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
 REFS 3.20800X10⁻⁰¹ SQ.FT.
 REFL 2.31700X10⁺⁰⁰ FT.
 REFb 1.50000X10⁺⁰¹ FT.
 XMRP 1.38370X10⁺⁰¹ IN.
 YMRF 0.00000X10⁺⁰⁰ IN.
 ZMRP 2.40000X10⁻⁰² IN.
 SCALE 1.87500X10⁻⁰² SCALE

MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER



SYMBOL	MACH	PARAMETRIC VALUES			
*	0.250	BETA	0.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	0.000		

REFERENCE INFORMATION	
REFS	3. 20000X10 ⁻⁰¹
REFL	2. 31700X10 ⁺⁰⁰
REFB	1. 50000X10 ⁺⁰¹
XHMRP	1. 88570X10 ⁺⁰⁰
YHMRP	0. 00000X10 ⁺⁰⁰
ZHMRP	2. 40000X10 ⁻⁰²
SCALE	1. 87500X10 ⁻⁰²

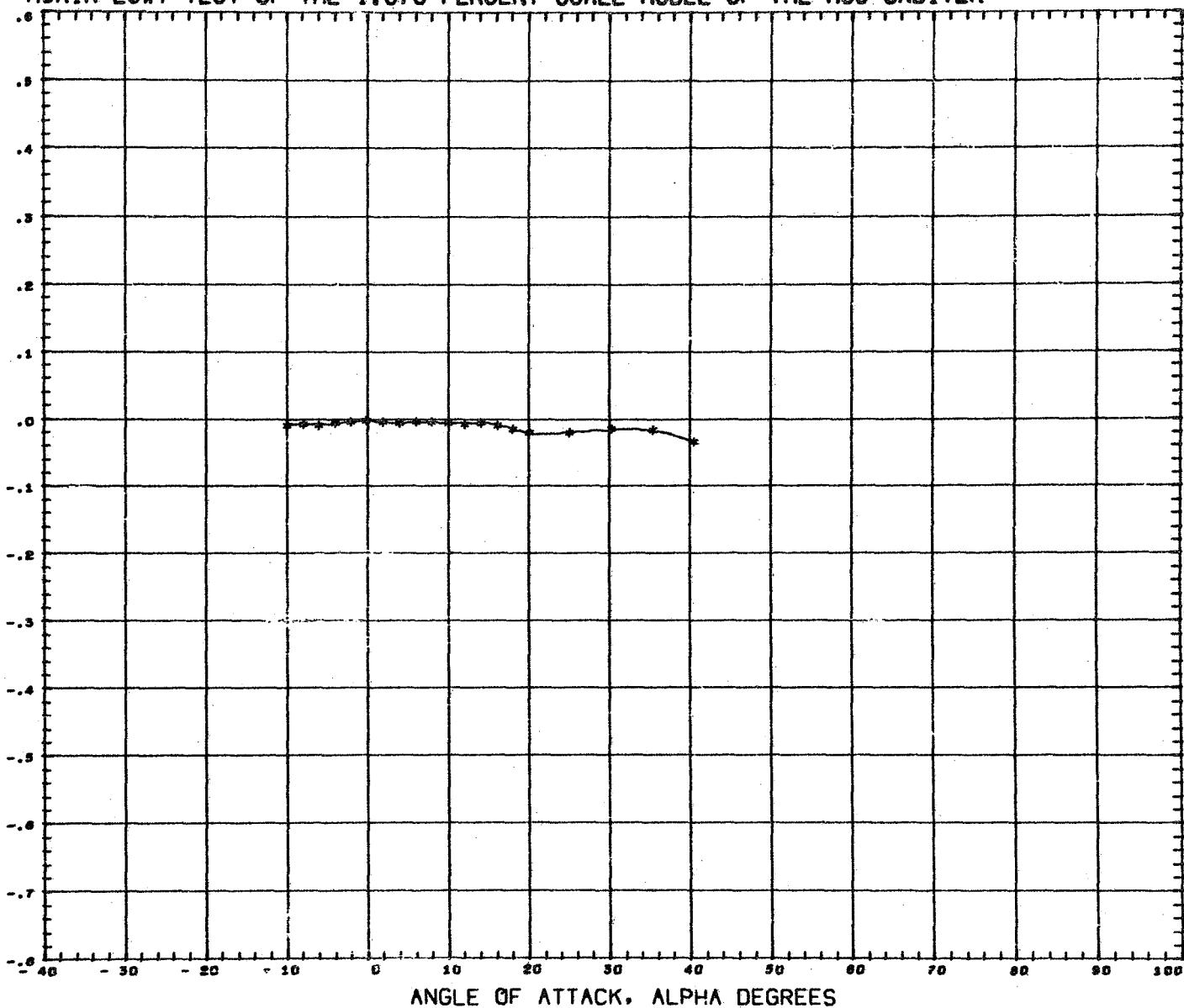
REFERENCE FILE SDY 37100150

L SWT 223 1.875 PC MOD S5 ORB. B1H6

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

LATERAL FORCE COEFFICIENT, CY



SYMBOL MACH PARAMETRIC VALUES
 * 0.250 BETA 0.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 0.000

REFERENCE FILE SDY 37100150

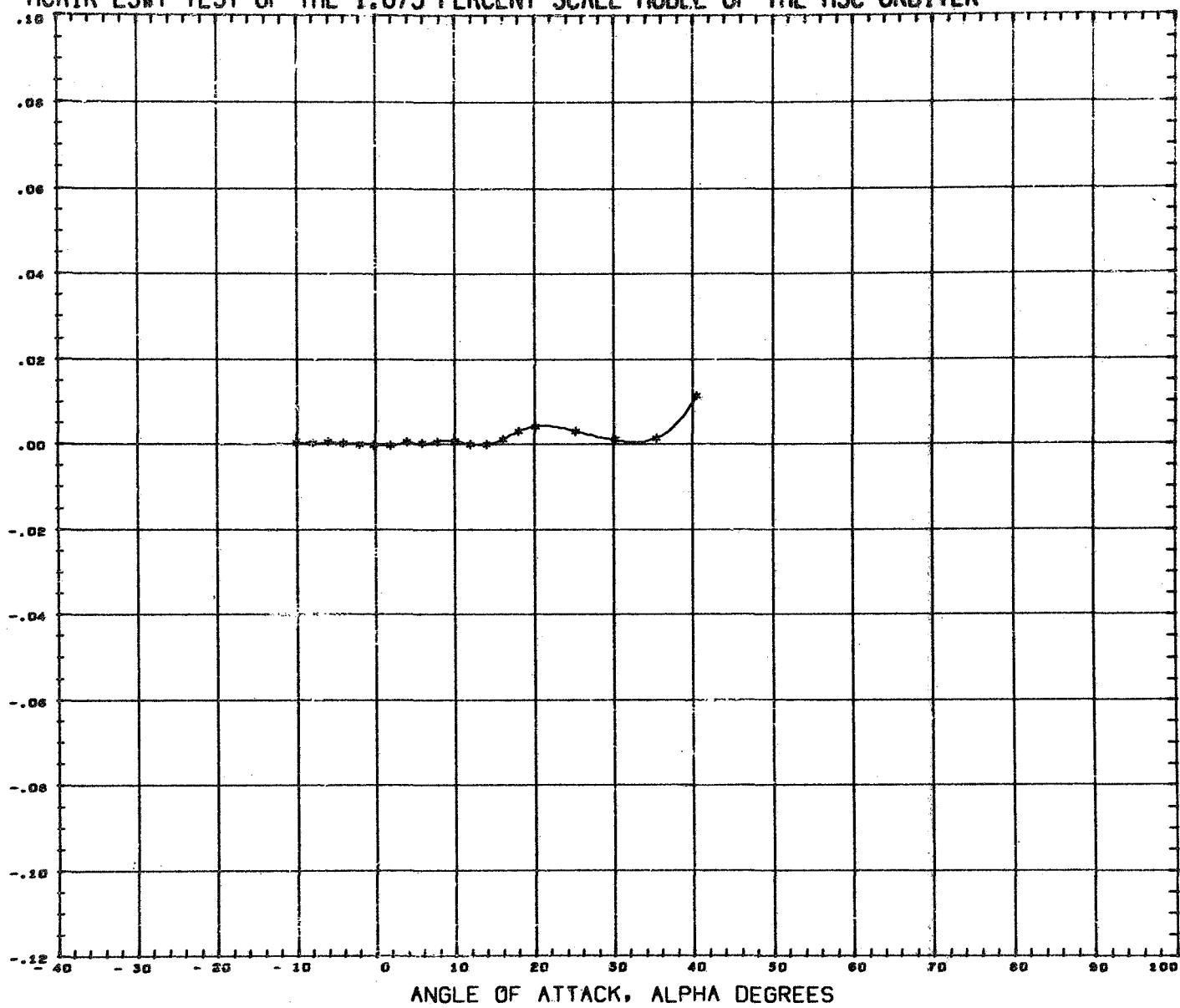
REFERENCE INFORMATION
 REFS 3.20000×10^{-01} SQ. FT.
 REFL $2.31700 \times 10^{+00}$ FT.
 REFB $1.50000 \times 10^{+00}$ FT.
 XMRP $1.36370 \times 10^{+01}$ IN.
 YMRP $0.00000 \times 10^{+00}$ IN.
 ZHRP $2.40000 \times 10^{+00}$ IN.
 SCALE 1.87500×10^{-02} SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

YAWING MOMENT COEFFICIENT, C_{WN}



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES		
		BETA	H TAIL	0.000
*	0.250	0.000	PHI	0.000
	ELEVTR	0.000		
	WINGL	0.000		

REFERENCE FILE SDY 37100150

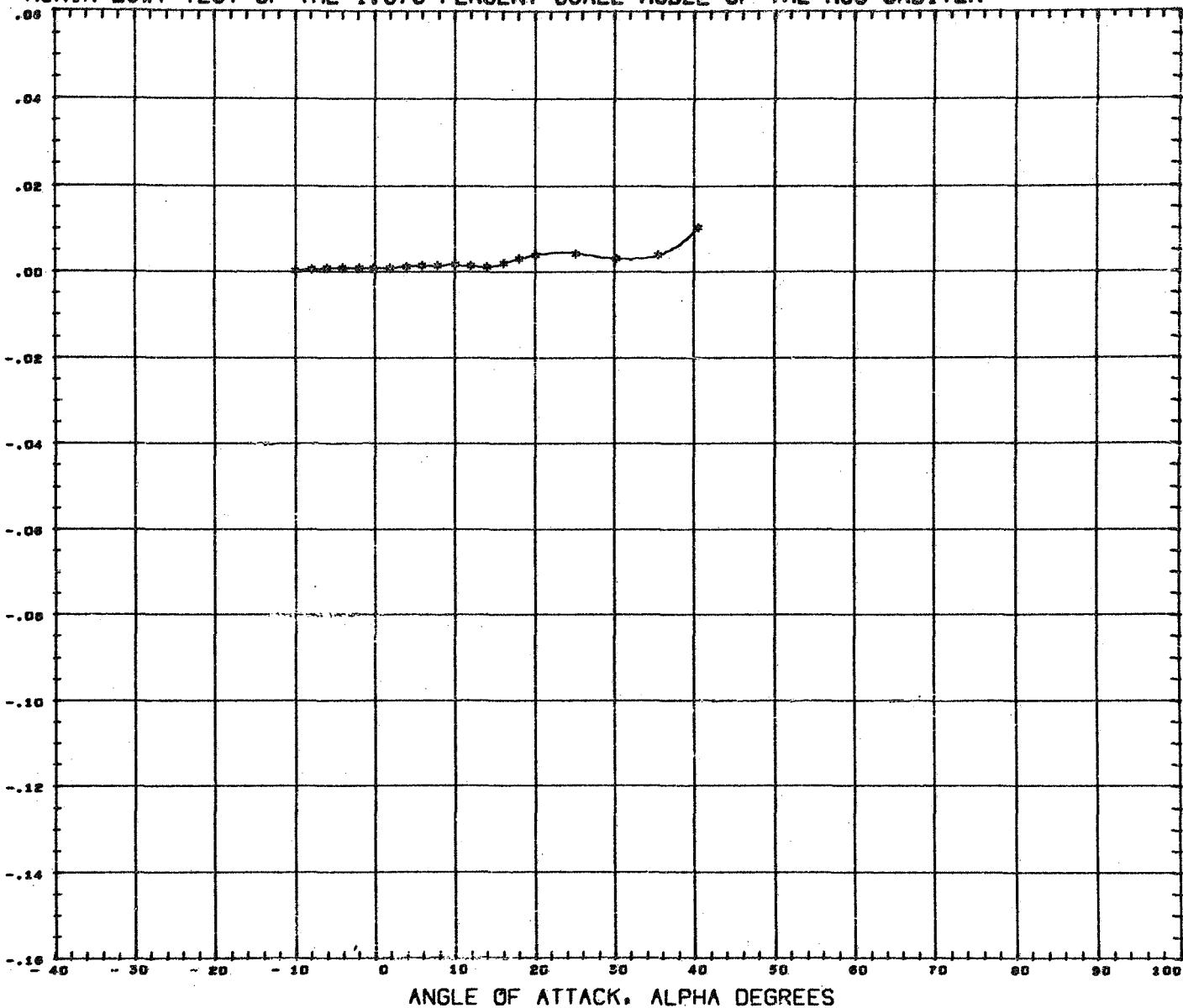
REFERENCE INFORMATION		
REFS	3.20600X10 ⁻⁰¹	SE. FT.
REFL	2.31700X10 ⁻⁰¹	FT.
REFB	1.50000X10 ⁺⁰⁰	FT.
XHMP	1.38370X10 ⁺⁰¹	IN.
YHMP	0.00000X10 ⁺⁰⁰	IN.
ZHMP	2.40000X10 ⁺⁰⁰	IN.
SCALE	1.87500X10 ⁻⁰²	SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

ROLLING MOMENT COEFFICIENT, CSL



ANGLE OF ATTACK, ALPHA DEGREES

SYMBOL	MACH	PARAMETRIC VALUES			
*	0.250	BETA	0.000	HTAIL	0.000
		ELEVTR	0.000	PHI	0.000
		WINGL	0.000		

REFERENCE FILE SDY 37100150

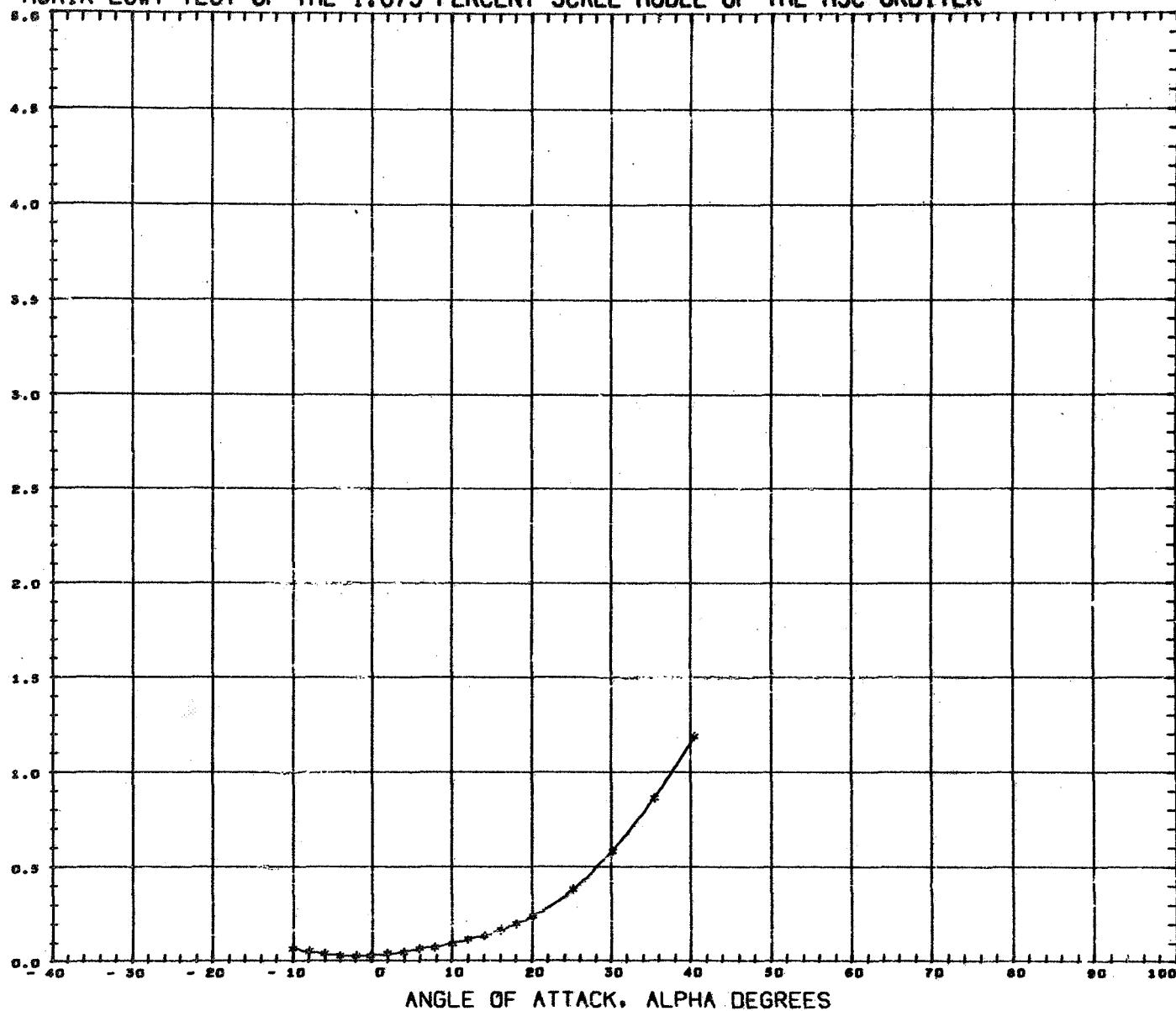
REFERENCE INFORMATION		
REFS	3.20000×10^{-01}	sq. ft.
REFL	$2.31700 \times 10^{+00}$	ft.
REFB	$1.50000 \times 10^{+00}$	ft.
XHRP	$1.38370 \times 10^{+01}$	in.
YHRP	$0.00000 \times 10^{+00}$	in.
ZHRP	2.40200×10^{-02}	in.
SCALE	1.87500×10^{-02}	SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6

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MCAIR LSWT TEST OF THE 1.875 PERCENT SCALE MODEL OF THE MSC ORBITER

TOTAL DRAG COEFFICIENT, CD



SYMBOL: MACH PARAMETRIC VALUES
* 0.250 BETA 0.000 HTAIL 0.000
 ELEVTR 0.000 PHI 0.000
 WINGL 0.000

REFERENCE FILE SDY 37100150

REFERENCE INFORMATION
REFS 3.20000X10⁻⁰¹ SG. FT.
REFL 2.31700X10⁻⁰¹ FT.
REFB 1.50000X10⁺⁰⁰ FT.
XMRP 1.38370X10⁻⁰¹ IN.
YMRP 0.00000X10⁻⁰⁰ IN.
ZMRP 2.40000X10⁻⁰² IN.
SCALE 1.87500X10⁻⁰² SCALE

LSWT 223 1.875 PC MOD S5 ORB. B1H6

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